Occupational Hazards

the magazine of industrial safety • fire protection • housekeeping

APRIL 1961

AN INDUSTRIAL PUBLISHING CORPORATION MAGAZINE

EDITORIAL DEPT
UNIVERSITY MICROFILMS INC
313 NORTH FIRST ST
ANN ARBOR MICH MIG

An Occupational Hazards Special Report / Protective Clothing: Where and When To Use It

Master of Mishaps in Memphis

page 40

Safety Education/ The Course No One Can Afford To Fail

page 36

Previewing the Spring Shows

page 86

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G-535

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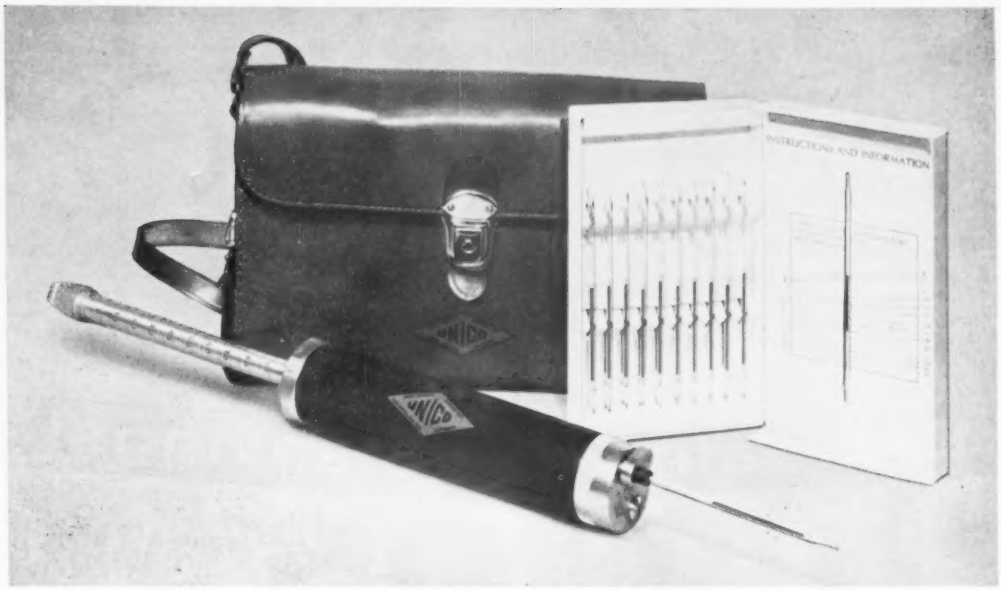

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Tube No.	Detector Tube	Measurable Concentration
102A	Acetone—high range	0.10—7.0%
102B	Acetone—low range	25—300 PPM
101	Acetylene	100—1000 PPM
128	Acrylonitrile	.0020—5.0%
105A	Ammonia—high range	1.0—25%
105B	Ammonia—low range	10—400 PPM
118A	Benzene	5—250 PPM

*118B Benzene in the presence of other aromatic hydrocarbons 10-700PPM

114	Bromine	1—1600 PPM
126A	Carbon Dioxide—high range	0.10—5.0%
126B	Carbon Dioxide—low range	500—12,000 PPM

*141 Carbon Disulfide 10-200PPM

Tube No.	Detector Tube	Measurable Concentration
106A	Carbon Monoxide	25—4000 PPM
106C	Carbon Monoxide in presence of hydrocarbons and nitrous gases	25—4000 PPM
109	Chlorine	1—150 PPM
116	Chlorine Dioxide	10—500 PPM
115	Cyclohexane	0.010—0.60%
107	Diethyl Ether (Ether)	0.010—4.0%
123	Dimethyl Ether	0.010—1.5%
104A	Ethanol (Alcohol)—high range	0.10—5.0%
111	Ethyl Acetate	0.040—7.0%
108B	Ethylene—low range	0.10—50 PPM
122A	Ethylene Oxide—high range	0.010—8.0%
113	n-Hexane	0.010—0.60%
112A	Hydrogen Cyanide—high range	0.010—3.0%
120A	Hydrogen Sulfide—high range	20—1700 PPM
120B	Hydrogen Sulfide—low range	1—70 PPM
120C	Hydrogen Sulfide—in the presence of sulfur dioxide	20—1500 PPM

*142 Mercury .10-2.0 mg/M³

Tube No.	Detector Tube	Measurable Concentration
119A	Menthanol—high range	0.020—8.0%
129	Nickel Carbonyl	20—700 PPM
117	Nitrogen Dioxide	0.1—1000 PPM
121A	Phosphine, high range	20—900 PPM
121B	Phosphine, low range	5—90 PPM
103A	Sulfur Dioxide—high range	0.050—10.0%
103B	Sulfur Dioxide—mid range	10—1000 PPM
103C	Sulfur Dioxide—low range	5—300 PPM
124	Toluene	5—1000 PPM
134	Trichloroethylene	10—400 PPM
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132	Vinyl Chloride	0.050—1.0%

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Circle No. 3 on reader service card (page 1) ***Circle No. 4 on reader service card***

Readers' guide to

for April 1961

COVER

Masked and suited against dangerous air contamination, the men in our cover photo work on a new car at a Detroit plant. Each receives fresh air through a hoseline connected to his helmet. The photo comes from Chrysler Corp. and Chicago Eye Shield Co.

SAFETY

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The introduction to a 5-part editorial section.

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Protective Clothing: Where and When To Use It 31
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Safety Education: The Course No One Can Afford To Fail 36
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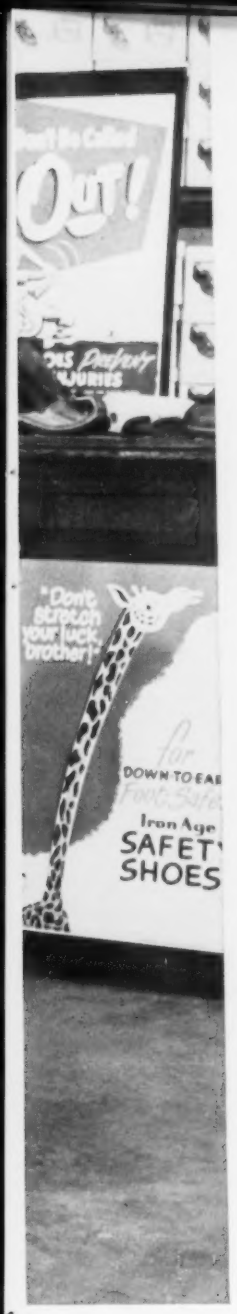

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No. 621 A to EEE

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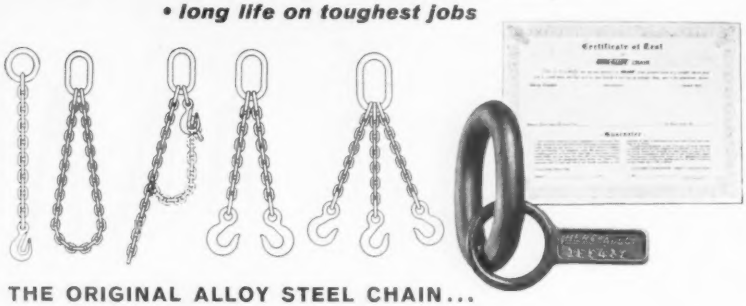

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H506 — Town Brown leather and Nylon mesh ventilated U-Wing, oak leather sole, rubber heel . . . Sizes: A, B . . . 7-12, 13, 14; C . . . 6-12, 13, 14; D, E . . . 5-12, 13, 14.

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H522 — Walnut Pheasant grain all-leather ventilated moc-oxford, Neoprene Air-Cushion Saf-Tred sole and heel . . . Sizes: B . . . 7-12, 13; C . . . 6-12, 13; D, E, EEE . . . 5-12, 13.

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Work clothes

Catalog 201 by M. Setlow & Son, Inc., describes through the use of photos, line drawings, and concise text its union-made work clothes. Besides supplying readymade clothing, Setlow will custom design work clothing to meet your special requirements.

Circle No. 300 on reader service card

Successful supervision

Elliott Service Co. offers brochures covering such subjects as property conservation and year-round accident prevention. These two-color brochures are of special interest to safety directors, foremen, and other members of management who have a hand in industrial safety and security.

Circle No. 301 on reader service card

Mop handles

Bulletin 1059 by Geerpres Wringer, Inc., is an illustrated, two-color information sheet on a new vinyl covered tubular steel mop handle. Complete instructions for installation are included. It is insulated, corrosion-proof, heat-resistant, and lightweight.

Emergency lighting

An illustrated 16-page booklet designed to help you save money when you plan emergency lighting is available from Carpenter Manufacturing Co. "How to Select Emergency Lighting" gives step-by-step instructions for determining where such lighting is needed.

Circle No. 302 on reader service card

Eye-Face guards

Mine Safety Appliances Co. describes in a 40-page, 2-color brochure, eye and face protection for a wide variety of industrial applications. Highlighted is the Sightgard line of lenses and frames. Also reviewed are vision testing equipment, goggles, faceshields, welding helmets, and accessories and parts.

Circle No. 303 on reader service card

Dust separators

Day Dual-Clone dust separators are detailed in Bulletin D-20 released by The Day Co. These separators have no moving parts, can be furnished in 22 standard sizes to handle

continued on page 20

20 Years Service in Supplying SAFETY EQUIPMENT AND APPLIANCES

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Davson Bulletin Boards

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Circle No. 9 on reader service card

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- ☐ Illustrated list of Thom McAn Safety Shoes
- ☐ Set of safety posters

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new #300

the safety toe with a new profile

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Racine

GLOVE COMPANY, INC.
RIO, WISCONSIN

Safety Gloves and Apparel
FOR INDUSTRY

Circle No. 11 on reader service card

LETTERS
readers report

"One of the Few" That Are Practical

EDITOR:

We of this office would like to compliment you on your magazine OCCUPATIONAL HAZARDS. Yours is one of the few periodicals that deals with the practical problems found in the field of accident prevention. There are many that treat such subjects so theoretically that the whole thought of the original problem as well as the solution is lost.

So many times, we in the field are too slow in recognizing a good thing such as OCCUPATIONAL HAZARDS until it's too late. Hope I am not too late.

Our OCCUPATIONAL HAZARDS is currently being furnished us through the courtesy of Safety Equipment Co. of Florida, 109 Hamiller Street, Tampa, Fla.

CHAS. H. GUM

Safety Supervisor
City of Jacksonville
Department of Electric
& Water Utilities
Jacksonville, Fla.

Housekeeping Equipment in Demand

EDITOR:

In your January 1961 issue of OCCUPATIONAL HAZARDS there was a picture on page 28 showing a device which you labelled as a "Rube Goldberg" affair for safety in high places.

At our plant such a device could have application, and we would be much obliged if you could supply us with the name and address of the manufacturer, or the plant where it is in use.

We find your publication most helpful in maintaining an effective safety program.

F. J. RONICKER

Plant Manager
Texas Gulf Sulphur Co.
Okotoks, Alberta, Canada

We supplied the name and address of several makers of this kind of equipment. A lot of readers wrote us asking for further information on the kinds of housekeeping equipment we pictured in "10 Time-Saving Cost Cutters You Can Use," the feature to which the Ronicker letter referred.

continued on next page

YOUR BEST MOVE . . . MOVE with **MERRILL** MATERIAL HANDLING DEVICES FOR THE MOST IN *Safety and Economy*

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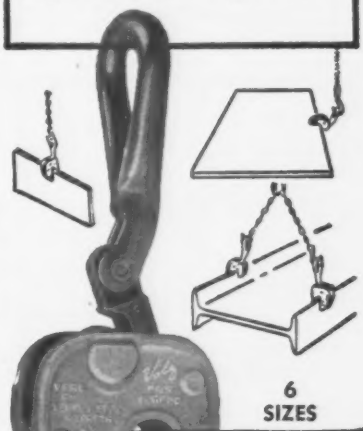

6 SIZES

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Transforms any fork lift truck into a safe, efficient mobile overhead lifting unit.

Over 25 Material Handling Devices described in our catalog C-3.

Ask for a copy.

MERRILL BROTHERS
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1-60

Circle No. 12 on reader service card

continued from page 11

Well, How Good Is *Your* Medical Program?

EDITOR:

The December 1960 issue of OCCUPATIONAL HAZARDS contains a request from E. M. Klutas, assistant professor of occupational health nursing, University of Washington, for an article which was printed in the issue of November 1959.

Though I was not receiving OCCUPATIONAL HAZARDS at that time, I should appreciate a copy of the article "How Good Is Your Medical Program?"

As an occupational health consultant for the Liberty Mutual Insurance Co., my major concern is industrial medical programs. I feel sure your article will be most helpful. . . .

SYLVIA B. COPPERSMITH, R.N.
Loss Prevention Medical Department
Liberty Mutual Insurance Co.
St. Louis, Mo.

The article told of surveys made of company medical programs by OCCUPATIONAL HAZARDS *and* Modern Office Procedures, *another Industrial Publishing Corporation magazine. It included recommendations from the U.S. Public Health Service for testing the quality of your own plant program.*

"You Have To Get Tough" Backs Program

EDITOR:

We have just received the January 1961 publication of OCCUPATIONAL HAZARDS, and are very much interested in the article on page 36 entitled "You Have To Get Tough To Save Eyes."

Would it be possible for us to secure 10 additional copies of this magazine so that we might use this article in each of our manufacturing plants?

RICHARD O. PIERCE
Assistant to the
Director of Industrial Relations
Knox Glass, Inc.
Knox, Pa.

"You Have To Get Tough To Save Eyes" was based on the experience of a company that found an eye protection program has to be strongly enforced if it's to be effective. Our May issue will carry case histories of other eye protection programs, and material on the cost of eye injuries. Reader response to this article prompted us to intensify our coverage in this all-important area.

"Sudden Injury" Posters Go on Boards

EDITOR:

I receive a copy of your magazine each month through the courtesy of the Safety Corp. [Indianapolis]. It is a fine up-to-the-minute magazine with many useful articles to which I refer from time to time.

In the February 1961 issue, under the heading of "Letters," I noticed that "Sudden Injury" posters are available each month. We have approximately 20 bulletin boards throughout our plant where this type of poster could be displayed to good advantage.

Please quote some prices.

JERRY BIAS
Plant Protection Chief
Design & Manufacturing Corp.
Connersville, Ind.

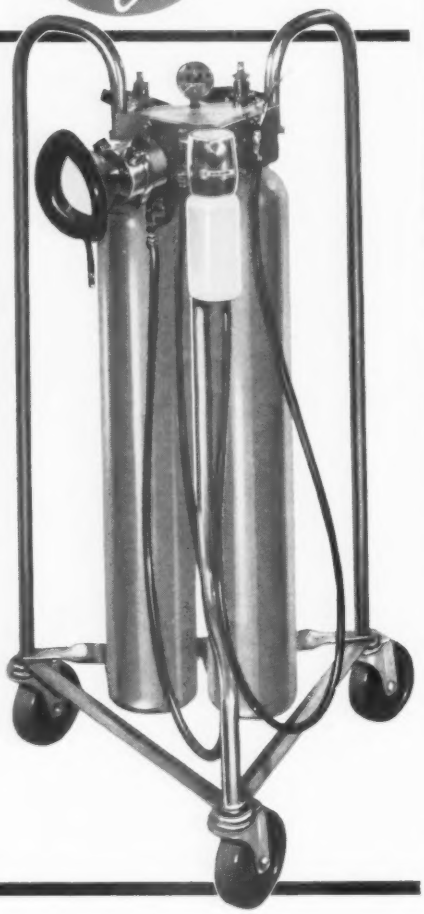
"Sudden Injury" posters go up monthly on the bulletin boards of

continued on page 16

you can always count on E&J® dependability

THE E&J EMERGIKART

RESUSCITATOR
INHALATOR
ASPIRATOR



Every in-plant safety program should include the inexpensive but always dependable E&J Emergikart. Highly mobile, it rolls easily on large (4") rubber casters—a feature your plant nurse will appreciate. It's ready to use in seconds.

See the E&J Emergikart in action! Ask your E&J dealer for a demonstration, or write for Bulletin No. 2490-B, Dept. OC-4

OHIO® Ohio Chemical

OHIO CHEMICAL & SURGICAL EQUIPMENT CO., MADISON, WIS. • OHIO CHEMICAL PACIFIC CO., BERKELEY, CALIF.
OHIO CHEMICAL CANADA LIMITED, TORONTO, ONT. • AIRCO COMPANY INTERNATIONAL, NEW YORK CITY
(Divisions or subsidiaries of Air Reduction Company, Inc.)

Circle No. 13 on reader service card

They're CESCO's new two-tone Styl-Safe safety glasses... an entirely new design which combines smart styling and practical protection in one pair of glasses. Styl-Safe glasses have broad-bearing temples with head-hugging spatula ends that are not only good to look at, but they hold the glasses securely in position and prevent them from "riding" forward. Available in Briar or Charcoal, temples are joined to the two-tone frame with 7-barrel hinges. Core wire in temples gives firm strength and rigidity to the entire piece. Temple ends, broader than on most safety glasses, provide added strength and improved appearance.

CESCO Styl-Safe glasses feature 6 curve safety clear or anti-glare lenses mounted in deep-seated lens grooves for *maximum* protection against impact. New two-tone glasses are available with keyhole bridge in sizes 20, 22 and 24. Your choice of the following sizes and colors: Charcoal and Crystal • 356CC (46x39mm) or 358CC (48x41mm); Briar and Crystal • 356BC (46x39mm) or 358BC (48x41mm).

***SEE** your CESCO distributor or write our Chicago office for prices and complete information about CESCO Styl-Safe glasses*

CESCO

CESCO FOR SAFETY

CHICAGO EYE SHIELD COMPANY • 2707 West Roscoe Street, Chicago 18, Illinois

Circle No. 14 on reader service card

You are looking at the world's safest lineman's boot: the new LEHIGH POLECAT©

FIRST LINEMAN'S BOOT EVER TESTED AT 10,000 VOLTS!

This is the new LEHIGH POLECAT. The most meticulously designed, most thoroughly tested, most expert-endorsed lineman's boot in the world. Here's how it got that way.

SAFETY EXPERTS HELPED DESIGN A basic lineman's boot was used as a working model...as a starting point. A series of conferences was then held with top safety experts of the leading eastern seaboard utility corporations. Their experts suggested some specific features they wanted incorporated in a new boot. These features were added to the design.

GRUELING 10,000-VOLT TEST The first working model of the LEHIGH POLECAT, along with a standard lineman's boot was sent to the famous Electrical Testing Laboratories, Inc., 2 East End Avenue, New York. Each shoe, with the entire bottom wet and covered with tinfoil, was placed on a steel plate. A wood "insole" was also covered with tinfoil, placed inside and pressed down under a 40-pound load. Voltage was applied to both foil electrodes and raised in approximately 60 seconds to 10,000 volts. Result? The standard boot punctured at 10,000 volts after 30 seconds. The POLECAT withstood 10,000 volts for the full three minutes!

JOB-TESTED BY LINEMEN The finished boot was then tested by linemen of several major utilities* on regular jobs. After these tests, the utilities were unanimous in their approval of the boot for its safety, its comfort, its rugged durability and good looks.

OTHER UNIQUE FEATURES Here are a number of other specific features that help make the POLECAT unquestionably the safest, undoubtedly the best lineman's boot in the world. **1:** Extra-wide heavy steel shank. **2:** Special leather mid-sole "platform" runs full length for increased leg support. **3:** Built-up heel for easier and safer walking. **4:** Plastic-coated, non-conductive steel safety toe and shank. **5:** Special flap to resist abrasive climbing action. **6:** "Ozo" sole resists acids, oils and chemicals. **7:** Water-repellent leather. **8:** Sweat-resistant "Chro-Tan" leather insole.

Don't take chances...take the best ...the rugged new POLECAT by

LEHIGH

SAFETY SHOE COMPANY/EMMAUS/PA.

*Names on request © TRADEMARK REGISTRATION PENDING

Circle No. 15 on reader service card

continued from page 12

many plants in the United States and Canada. Two-color reprints are priced low: 1-19 copies, 15 cents each; 20-49 copies, 12 cents each; 50-99 copies, 10 cents each; 100-499 copies, 7 cents each; 500 or more, 5 cents each. Orders should be placed as soon as possible after each poster appears in the magazine. Some companies prefer to order a standing quantity covering 12 months at a time.

Any Help for This Firm's Emergency Plans?

EDITOR:

We are in the process of developing a training program for an emergency squad whose members would be ready at all times to offer first aid in the event of in-plant accidents.

With your wide contact in the safety field of industry throughout the United States, your files no doubt contain a number of sample basic plans along these lines as well as material which could be developed into training manuals and safety booklets.

We would appreciate receiving on a loan basis sample copies of anything you may have to offer which you feel may be of assistance to us.

J. L. MOUNTAIN
Personnel Department
Vickers, Inc.
Torrance, Calif.

We suggested several sources for specific company plans. Can readers supply sample training materials and organizational plans of their own?

Safety Program Is a Farce

EDITOR:

In reviewing a file of old magazines in my office, I have come upon your issue of November 1958. On page 51, your "Along the Grapevine" column is of particular interest to me, inasmuch as you fearlessly expose the hypocritical attitude of management in the field of accident prevention.

. . . I am employed as an ordinary workman by a Government agency . . . I assure you that my worm's-eye view of the so-called safety program of my employer is a farce and the laughingstock (bitter laughter) of the unfortunates ostensibly enjoying such "protection." . . .

NAME WITHHELD
Alameda, Calif.

The author of this letter, replying to our own letter to him, later commented: "While I do now work for a branch of the Government, past experience has taught me that the identical philosophy among management exists regardless of employer." He regrets the prevalence of lip service, the lack of sustained effort.

Books on Insurance Underwriting Wanted

EDITOR:

I would appreciate your advising me the cost of subscribing to your magazine, OCCUPATIONAL HAZARDS.

I was also wondering if you published, or knew of any books, of a technical nature, relative to general liability underwriting and the underwriting of workmen's compensation insurance.

ALLEN A. HALL
Consolidated Underwriters
Jackson, Mich.

Our own book (565 Industrial Compensation Decisions; *$12.50) is used in many compensation insurance underwriting offices. We furnished the names of several publishers, however, in answer to this query.* • •

Safe, Acid-Resistant STATIC-FREE

100% Dynel

CHEM-WEAR UNION MADE ®

Work Clothes

Withstands More Repeated Laundering & Rugged Wear Than Work Clothes Made of Other Fibres

Nationally famous CHEM-WEAR Sanforized* work clothes repel acids, caustics and stains . . . and do not support combustion. CHEM-WEAR has the durability of Dynel and the comfort of cotton. Strongly stitched seams are acid and caustic resistant, too.

CHEM-WEAR Work Clothes are available in Shirts, Trousers, Coveralls, Laboratory Coats. Also Work Aprons of rugged, clear vinyl.

*Shrinkage less than 1%

HOODED COVERALLS

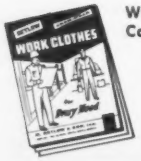
Protects Boiler Maintenance Men & Clothing From Soot

Sanforized* heavy blue denim completely covers from head to foot. Securely stitched and reinforced front piece. Adjustable hood, wrists and ankles.

*Shrinkage less than 1%

PERMANENTLY FLAMEPROOFED Work Clothes

For hazardous jobs when danger of flame or flash point exists. Flameproofing will not wash out.



Write For Catalogue

MADE TO ORDER
Work Clothes and Industrial Apparel
Designed and Made to Meet Your Requirements

Quality Since 1896

M. SETLOW & SON, Inc.
PLANTS: ORANGE, CONN. & PROSPERITY, S.C.
Mailing Address: P.O. BOX 1784, NEW HAVEN, CONN.

Circle No. 16 on reader service card

Circle No. 17 on reader service card →

New Willson headgear helps fit gas masks "airtight in 4 seconds"

Tite-Seal® is the first headgear improvement in 20 years ... but you'll need only 4 seconds to appraise its value for any environment with a gas hazard. You can don *and fit* a Willson gas mask airtight in almost the same motion ... set the two ratchets quickly for a *permanently adjusted fit* ... and check it, all in 4 seconds! Contoured, minimum-tension headgear fits over any skull and *under* safety hats and fire helmets. Durable, lightweight plastic cleans easily, dries quickly. Bureau of Mines-approved with Willson Scottoramic facepiece gas masks.

SAFETY IS WORTH WORKING FOR
WILLSON
SAFETY CLINIC

please turn page

WILLSON®

New protective comfort for workers—and new opportunities for you to reduce costs with Willson: (1) New Women's Safety Glasses, (2) Respirator with encapsulated Super Filter, (3) Sound Barrier Cap, (4) Rocket Propellant Gas Mask and Canister.

Unique solutions to safety problems in four new Willson protectors

They're not just new protectors. Each offers new convenience and comfort—*plus* a unique solution to safety problems that require your special attention.

New Women's Safety Glasses—Here's the right combination of eye appeal and safety for women in your plant—blondes, brunettes, or redheads. Flattering, functional, featherweight frames in two-tone ebony-on-crystal or solid charcoal. Modern F7 shape lenses in three standard sizes—clear 6 Curve Super-Tough®, Plas-Tough®, or Willsonite®. Spatula temples. Rigid or rocker nose pads. Same job-proved protection as all other Willson plastic safety glasses. Available with Clear-Vue sideshields.

New Encased Super Filter is permanently sealed in a clear plastic case, well protected against accidental damage from all normal handling. The new R520 is *universal*—clear plastic case fits easily . . . in any Willson half mask, standard full-face mask, or Scottoramic facepiece.

Exclusive feature permits airtightness of mask to be checked quickly and easily: just cover filter opening with thumbs, then inhale. Condition of filter can be checked visually. Protects against radioactive dusts, plutonium, beryllium and similar toxic hazards.

SAFETY IS WORTH WORKING FOR
WILLSON
SAFETY CLINIC

New Sound Barrier® Cap safeguards workers exposed to both head and hearing hazards. Combines two unexcelled safety concepts—exclusive Willson Geodetic® strap suspension and Sound Barrier ear protection. Geodetic suspension in lightweight fiberglas cap dissipates impact force over wide head area. Protects brain from shock waves and prevents "bottoming" of cap shell.

Sound Barrier's *fluid-filled* vinyl cushions attenuate high-frequency sounds transmitted through bone structure around ears. Job tests prove they reduce fatigue and increase productivity.

First Rocket Propellant Gas Mask and Canister help you protect more people at less cost from toxic acid, organic, and ammonia-type liquid propellants: red fuming nitric acid (RFNA), unsymmetrical dimethyl hydrazine (UDMH), hydrazine, hydrogen peroxide, kerosene, aniline, alcohol, and splashes from liquid nitrogen tetroxide.

Willson portable protectors meet M21 specifications of Protective Development Division, U. S. Army Chemical Research Development Laboratories. Optional military-type canister prefilters radioactive and bacteriological dusts and mists.

Contact your Willson distributor for details on *complete* eye, lung, head, and hearing protection.

safety is worth working for **WILLSON**®

Willson Products Division
Ray-O-Vac Company
Reading, Pennsylvania
In Canada: Safety Supply Company

GET INTO ACTION FASTER

with flexible, lightweight hose jacketed 100% with DACRON®

POLYESTER FIBER

"Fire!" You get to it faster—fight it more effectively—with hose jacketed 100% with "Dacron"* polyester fiber. You can snake this hose around corners . . . maneuver through debris . . . handle it easier . . . because hose of "Dacron" is more flexible, weighs 25% less than ordinary hose.

And this hose is *always* ready when you need it. Tough jacketing, 100% of "Dacron", resists damage from abrasion and chemicals, won't mildew or rot—doesn't even have to be dried after use or testing. So hose of "Dacron" lasts longer—saves you money on replacements.

Next time you buy hose—make it hose jacketed 100% with "Dacron".

Free booklet tells about more advantages of hose made with "Dacron". Write E. I. du Pont de Nemours & Co. (Inc.), Textile Fibers Dept., DM 1663, 3rd & Greenhill Aves., Wilmington 98, Delaware.

*"Dacron" is Du Pont's registered trademark for its polyester fiber.

DU PONT

REG. U. S. PAT. OFF.

BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY

Circle No. 8 on reader service card

Circle No. 17 on reader service card

NEW

from HAUS OF KRAUSE

LIGHTWEIGHT SAFETY SHOES
REDUCE FATIGUE TO CUT ACCIDENTS

• SMART CASUAL LOOK

• RESIST ACIDS, ALKALIS WATER, SOIL • STEEL SHANK SUPPORT

Even men who resist ordinary safety shoes go for the lightweight comfort and good looks of LITE KNIGHT Safety Shoes. They weigh a full pound less per pair—and this adds up to an amazing half-ton saved for every mile walked.

Gray, Loden Green or Houn' Dawg brushed pigskin uppers are tanned with Kemi Klad to keep their soft, casual look. The natural breathe-ability of pigskin means healthy ventilation. And thick, springy, oil-resistant neoprene soles cushion every step.

◀ Casual oxford or chukka styles in this exclusive Haus of Krause construction that permits the use of lightweight materials in LITE KNIGHT Safety Shoes while meeting all ASA requirements for toe protection.

HAUS OF KRAUSE
SAFETY SHOES
H/K

Industrial jobbers interested in acquiring a franchise, write to Haus of Krause, Rockford, Mich.

Circle No. 20 on reader service card

Useful Literature

continued from page 19

air volumes from 250 to 23,750 c.f.m. of air. The 8-page bulletin includes performance data, photos, and selection and dimension charts.

Circle No. 304 on reader service card

Nondestructive testing

"Nondestructive Testing" by Sperry Products Co. is a two-color, fully illustrated, 12-page bulletin. It describes the Sperry line of ultrasonic testing equipment, portable industrial X-ray and magnetic particle inspection equipment and supplies.

Circle No. 305 on reader service card

Fastening tools

A 4-page brochure, "How Hilti Is Different," by Hilti Rapid Fastening Systems, Inc., details the principles behind the safe Hilti power-actuated fastening tools. It shows why the tools are guaranteed safe for use with concrete, brick, and steel.

Circle No. 306 on reader service card

Equipment protection

A comprehensive guide that points out many ways safety and efficiency can be built into equipment with a protective cone is issued by the Elasticone Division of Central Safety Equipment Co. Bulletin E-60 explains how production tools and manufactured products last longer with less maintenance when you use Elasticone covers.

Circle No. 307 on reader service card

Protective suit

Sawyer-Tower Safety Co. has literature that describes its Alspec liquid oxygen protective suit. After 5 years' use at Kelly Air Force Base these suits retained their new appearance and effectiveness. Specifications and prices are included in the literature.

Circle No. 308 on reader service card

Acid-resistant fabrics

Travis Fabrics, Inc., will send samples of its complete line of lint-free and acid-resistant fabrics. Samples include fabrics of 100-percent Dynel, 100-percent Dacron, and blends of Orlon and Dacron.

Circle No. 309 on reader service card

found...a practical place for a first aid kit

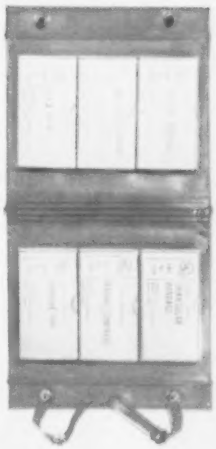
visor first aid kit at your fingertips

NOT in the glove compartment...

NOT under luggage...NOT under the car seat

BUT WHERE YOU SEE IT...
WHEN YOU NEED IT...

To make first aid materials immediately accessible to drivers in case of emergency, equip your company's truck and car fleets with this new, highly practical No. 730 MSco visor first aid kit. Ideal, too, for special employee awards in your safety contests. Can be imprinted with your company name or other special insignia if desired. Ask your MSco distributor, or write for details.



CONTENTS
For Complete First Aid:

- Assorted bandages
- Curad adhesive compress with Telfa
- Antiseptic swabs
- First aid for burns
- Triangular bandage
- Adhesive tape

(Special fills also available)

ADJUSTABLE

Fits all car and truck windshield visors

PAT. PEND.

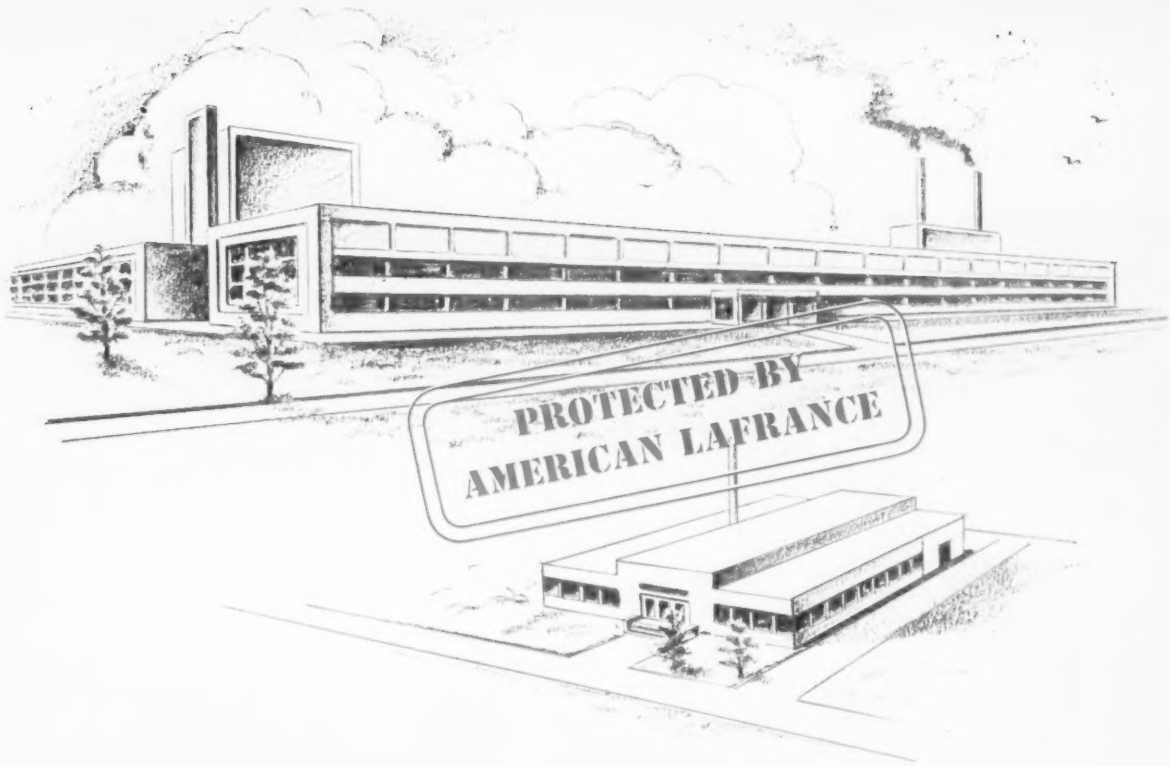
exclusive with

Specialists in first aid

Medical Supply Company

DEPT. BA1, ROCKFORD, ILLINOIS

Circle No. 21 on reader service card



FIRE PROTECTION *"Custom Engineered"* to meet your *specific plant* requirements

Whether your plant is large or small, your fire protection program must be correctly designed and engineered to guard against loss by fire. American LaFrance has long been identified as the *"Trusted"* name in positive fire protection service. Long experience and specialized engineering know-how have developed an incomparable advantage in quality equipment and broad application knowledge in the fire protection field.

American LaFrance products cover the entire range of fire protection equipment from small fire extinguishers through complete chemical systems of all types. Regardless of the hazard, you can be sure of sound recommendations providing maximum security from the hazards of fire.

• *Sales Offices and Representatives in all major cities.*

Put this ability and knowledge to work for you. Let American LaFrance show you the way to engineered fire protection in your plant.

Call, wire or write your nearest American LaFrance Representative or 55 E. LaFrance St., Elmira, N. Y., for a survey of your plant. No obligation, of course.

"TRUSTED" FIRE PROTECTION

Dry Chemical, Carbon Dioxide, Foam, Water, Soda-Acid Extinguishers . . . Wheeled Engines . . . Carbon Dioxide and Foam Systems . . . Industrial Fire Apparatus and Supplies. Send for free booklet "First Minute Fire Control" illustrating this equipment.

Everything you need to fight fire!

AMERICAN LAFRANCE

A DIVISION OF STERLING PRECISION CORPORATION

ELMIRA, N.Y.

LaFrance Export Corporation
Elmira, N. Y.
LaFrance Fire Engine and Foamite, Ltd.
Toronto 18, Ontario, Canada

The World's First and Largest Makers of Fire Fighting Equipment

Circle No. 22 on reader service card

WHEREVER YOU LOOK...

GOOD NEWS IS UNDERFOOT FROM 3M

Unfortunately, most people just don't look where they're walking.

Fortunately, many responsible firms realize this fact and use "SAFETY-WALK" and "SCOTCH-TRED" BRANDS of Non-Slip Surfacing to prevent slipping accidents. These efficiency materials apply in minutes. They stick to floors, stairways, ramps, hallways . . . even in showers. Quickly they adhere to any clean dry surface and are ready to use immediately after application. No mixing, no messing, no drying time —and they give safe, sure footing under even the most adverse conditions.

"SAFETY-WALK" and "SCOTCH-TRED" can be laid in designs to improve appearances, dress up entrances, locker rooms and other areas. (The wide variety of shapes, sizes, and colors make it easy to do.) Used to prevent accidents they help end costly claims; help lower insurance rates.

Both "SAFETY-WALK" and "SCOTCH-TRED" have distinct advantages. The choice depends upon the area where you need non-slip surfacing. For free samples write: 3M Co., 900 Bush Ave., St. Paul 6, Minn.

MINNESOTA MINING AND MANUFACTURING COMPANY

. . . WHERE RESEARCH IS THE KEY TO TOMORROW

3M COMPANY

"SAFETY-WALK" AND "SCOTCH-TRED" ARE REGISTERED TRADEMARKS OF 3M CO., ST. PAUL 6, MINN.

Circle No. 23 on reader service card

Scott announces the Pak-Alarm, another "FIRST" in the safety equipment industry. This audible alarm, combined with Scott Air-Pak's present visual pressure gauge, produces an AUDIO-VIDEO Alarm System that insures unprecedented safety in Scott protective breathing equipment!

The Pak-Alarm is "cocked" when the cylinder valve is opened. Its loud, clear, minutes-long warning signal will "knock your ears off" and provides ample time for safe exit from hazardous atmospheres.

Pak-Alarm is connected directly to, and is actuated by, the air supply itself. It is extremely accurate and consumes virtually no air during its ringing period.

This "Dual Warning System" is good news for all Scott Air-Pak users. The optional Pak-Alarm can be easily attached to your present Air-Paks.

Ask your Scott distributor for a demonstration.

SCOTT AVIATION CORPORATION

229 ERIE STREET • LANCASTER, N. Y.

Export: Southern Oxygen Co., 3 West 57th Street, New York 19, N. Y.
Canada: Safety Supply Co., Toronto — Branches in Principal Cities

Circle No. 24 on reader service card

Here's why cost-conscious plants buy Koolpads every summer

When a worker has to stop frequently to mop his forehead and wipe his glasses, his production efficiency has to drop.

That's where Koolpads come in. Every lightweight, cellulose sponge Koolpad holds six times its own weight in perspiration! Production delays to mop foreheads and wipe glasses are cut to an absolute minimum. In addition, a Koolpad dampened slightly in water before wearing gives a refreshing "lift" that helps shrug off some of the effects of stifling heat . . . . the immediate result is often improved production.

Each Koolpad is packed in a clean, neat envelope as an extra sanitary precaution. Also, every Koolpad has an easily adjustable elastic headband for a comfortable fit.

● **Insist on Koolpads, the sweatband with all these features . . . and the sweatband that can be rinsed in seconds and used over and over again.**

STANDARD SAFETY EQUIPMENT COMPANY

431 NORTH QUENTIN ROAD
PALATINE, ILLINOIS

BELLEVILLE 7, N. J. CLEVELAND 10, OHIO
LOS ANGELES 66, CALIF.

Circle No. 26 on reader service card

NAMES IN THE NEWS

people • companies • associations

Mine Safety Appliances Co. received a certificate of appreciation for its "significant contribution to the educational program of the Industrial College of the Armed Forces." MSA has been associated with the military

education program for the past 25 years. *Lt. General George W. Mundy*, commandant of the Industrial College, presented the award to *George H. Deike*, chairman of the board of MSA.

Robert M. Edmiston, New York district sales manager for the *American Optical Co.*, has been named to the American Society of Safety Engineers' committee on cooperation with engineering societies. . . . Appointment of *Norman B. Hall* as southeastern regional sales manager is announced by Medical Supply Co. Hall's offices are in Atlanta, Ga.

N. B. Hall

J. Hauser

Fibre-Metal Products Co. (Chester, Pa.), has established a new warehouse, *Fibre-Metal Southeast, Inc.*, in Decatur, Ga. General manager of the new distribution outlet is *Deric B. Pepler. Joe Hauser* has been appointed to the new distributor's sales staff.

continued on next page

NEW MYCO FIRST COAT

Won't Yellow!

Stops Floor Porosity!

Saves Dressing Time!

Saves Money!

FIRST COAT

is a colorless, semi-permanent primer that fills the pores of composition floors, makes dressings adhere better, stay glossier, wear far longer. It never yellows, laps or streaks; applies easily with mop. No leveling problems. Stripping dressing won't disturb First Coat, and unlike sealers, it can be removed! An excellent cost-cutting way to restore old floors, eliminate efficiency-robbing chemical action between new floors and dressing.

MASURY-YOUNG CO. MYCO®

FOR INFORMATION OR FREE DEMONSTRATION — MAIL TODAY!

☐ Send further information
☐ Have representative call to give free demonstration

Co. Name_____
Tel._____
Address_____
City_____ Zone____ State_____
Signature_____
Title_____

Circle No. 25 on reader service card

Help cut Careless Accidents with Stonehouse Signs

To promote orderly work and help cut down costly accidents through carelessness, include STONEHOUSE EFFICIENCY SIGNS in your safety program.

All Stonehouse Signs are designed and manufactured to accomplish this purpose in the most effective manner. They are of the highest quality workmanship and materials and comply fully with American Standard Specifications.

Hundreds of different stock-worded accident-prevention signs are available for prompt shipment. Usually the same day your order is received.

Write today for our free, full-color, 64-page catalog, plus information about custom-printed signs to meet your specifications.

Signs Since 1863

Stonehouse SIGNS

STONEHOUSE SIGNS, INC., 9th and Larimer Streets, Denver 4, Colorado

2156

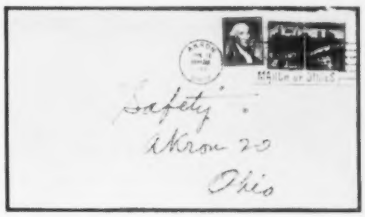
Circle No. 27 on reader service card

Names in the News

continued from page 25

John Hull has been elected vice president of *Walter Kidde & Company, Inc.* He'll manage Kidde's International Division. *Arthur M. Doxsey*, Hall's predecessor, is retiring after 41 years with the firm, though he'll continue as a consultant.

J. J. Stewart, a 20-year veteran in the optical field, was recently appointed assistant manager of the safety products division of *Titmus Optical Co.* (Petersburg, Va.).



MAIL SERVICE bother you? Then consider this envelope, delivered promptly to Acme Safety Products Co., 387 Storer Avenue, Akron, a city of 300,000. Acme is a franchise distributor of OCCUPATIONAL HAZARDS.

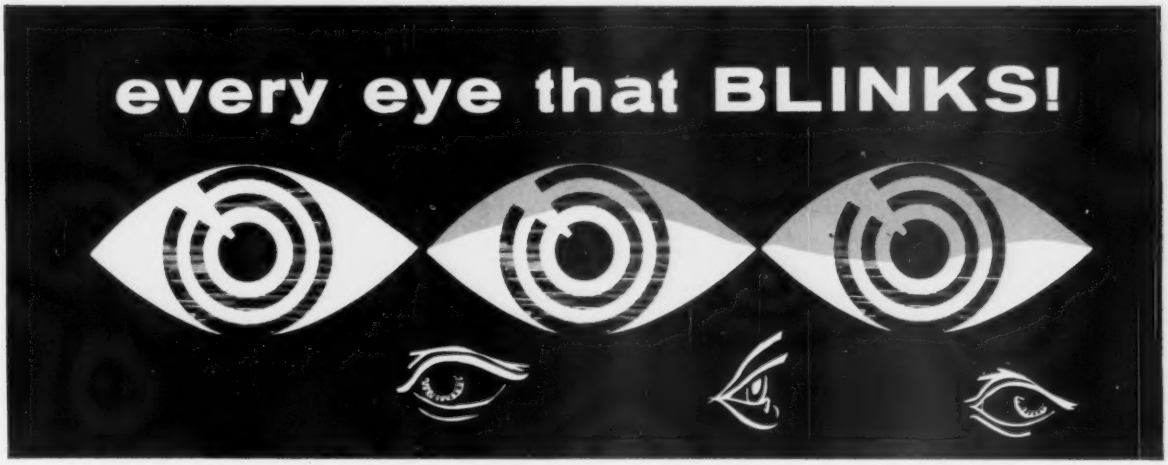
B. P. Burrage has been appointed training and safety coordinator of *Continental-Emsco Co.'s* Houston, Texas, plant. In addition to supervising all phases of training, Burrage coordinates the plant's safety, medical, security, and workmen's compensation programs.

C. R. Eddy

B. P. Burrage

Charles R. Eddy has been named eastern factory sales representative for *Sellstrom Manufacturing Co.* Serving the east coast territory from Maine to Virginia, he will call on distributors of welding and safety products.

there's a U.S. SAFETY product to protect...



For every eye hazard that exists, there's a U. S. Safety product to protect the eyes from it. The ultimate in design, durability, and desirability are built-in features of all U. S. Safety Eyewear. From plano or Rx spectacles to face shields . . . U. S. Safety's COMPLETE LINE offers you one source of eye protection products unmatched in quality. U. S. Safety's national network of sales offices and factory trained field engineers offer expert counsel on eye safety programs plus the convenience of fast, personal contact. All U. S. Safety products meet the American Standard Safety Code approved by A.S.A.

Ask about U. S. Safety's NEW 3-D Line featuring the new dimension in eye protection for the future! 3-d

For Complete Details Write: U. S. Safety • 1535 Walnut, Kansas City 8, Mo.

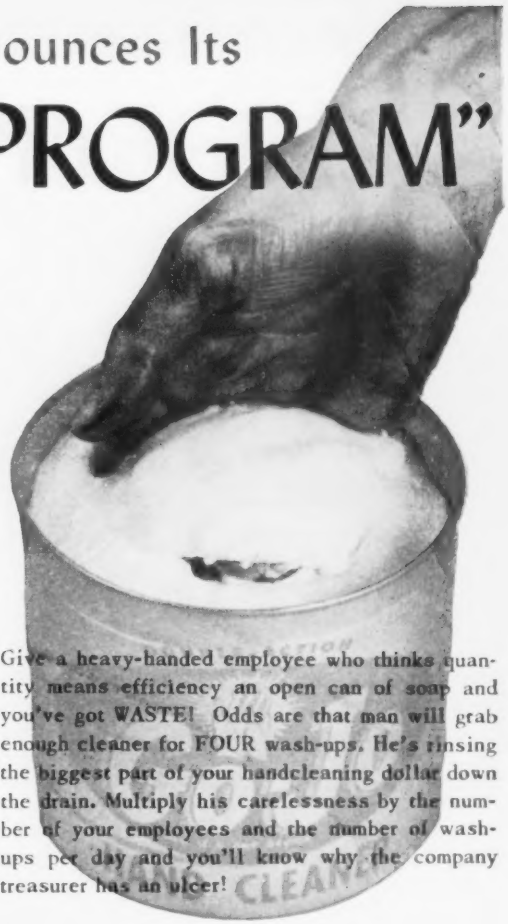
OFFICES IN PRINCIPAL INDUSTRIAL CITIES
IN CANADA: PARMELEE, LTD. • IN ENGLAND: PARMELEE (G.B.) LTD. • IN FRANCE: SAFI

Circle No. 28 on reader service card

GOJER, INC. Announces Its

"STOP WASTE PROGRAM"

OBJECTIVE:
TO DISCOURAGE SOAP-SQUANDERING



Give a heavy-handed employee who thinks quantity means efficiency an open can of soap and you've got WASTE! Odds are that man will grab enough cleaner for FOUR wash-ups. He's rinsing the biggest part of your handcleaning dollar down the drain. Multiply his carelessness by the number of your employees and the number of wash-ups per day and you'll know why the company treasurer has an ulcer!

Pat. No. RE. 24312

OBJECTIVE:
TO PROMOTE HANDCLEANING ECONOMY

The Go-Jo Heavy Duty Dispenser guards your handcleaning dollar like a miser! Precision engineered to eliminate waste, the Dispenser delivers the right amount of Go-Jo to get even grimiest hands spotlessly clean -- and one pull of the handle does it! It's designed to accommodate the 4½ lb can of energetic Go-Jo Creme Hand Cleaner, which, as you know, contains antiseptic GT-7 for dermatitis protection plus soothing emollients to prevent chapping. Go-Jo is a concentrated formula that goes four times further when used with the Go-Jo Heavy Duty Dispenser.

Your Gojer jobber will show you how to pare as much as 75% off your handcleaning expenditures. A few minutes is all it takes. The Go-Jo jobber in your area is eager to serve you. WRITE US TODAY for his name.

GOJER, INC. Box 991 Akron 9, Ohio

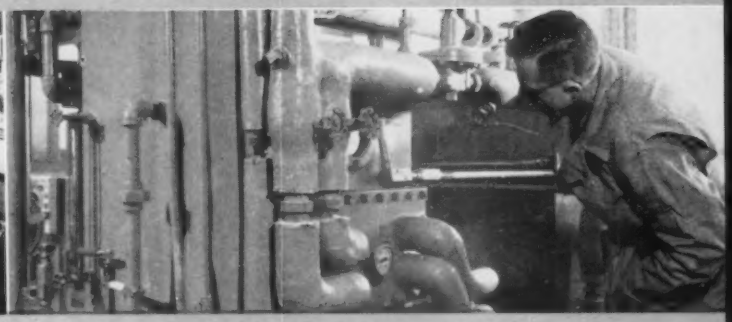
MANUFACTURERS OF go-jo PRODUCTS

2558

Circle No. 29 on reader service card

An Occupational Hazards Special Report

Protective Clothing...



...and Work Uniforms

THE DEVELOPMENT of protective clothing, perhaps more than any other factor, paved the way for industry's increasing use of extremely high temperatures, hard-to-tame chemicals, and exotic metals.

This special OCCUPATIONAL HAZARDS report, gathered by editors in talks and correspondence with safety and fire protection equipment manufacturers all over the United States, and in our own survey of 1,400 safety directors, deals with all types of protective clothing, from cotton and wool to the latest in aluminized fabric.

We used these same methods to get information on work uniforms in industry—information which shows uniforms are becoming constantly more important, are helping to build morale and lower accident rates.

The articles in this special report are:

Clothed Against Danger
Protective Clothing: Where and When To Use It
38 of Every 100 Plants Provide Work Uniforms
Everyone's Wearing 'Em

An Occupational Hazards Special Report

Clothed Against Danger

The next two pages outline several kinds of protective clothing and their industrial uses

THE MAN strolled leisurely into a ceramic oven that was hotter than hell in August. He carried a bundle of wood, a wicker chair, and a piece of beefsteak. The scorching 1,200° temperature turned the wood to ashes, devoured the wicker chair as the man sat in it, and broiled his steak. Two minutes later, he walked out of the oven unharmed.

This was no visitor from another planet—just a man in a heat-resistant suit, giving the first public demonstration of aluminized fabric in action.

Many uses for it in industry

Every day, American industry reenacts that drama—without the theatrical props, perhaps, but with matter-of-fact efficiency that's no less impressive.

Men now work for extended periods in hot pockets which until recently called for hit-and-run operations. Because of the unbearable heat, workers had to move into the work zone, perform tasks hurriedly, and get back out of danger fast. Safety and product quality both suffered.

Today, men in heat-resistant clothing are seen heat treating, repairing hot lines, pouring molten liquids, cleaning roasters, handling hot irons, moving about open hearths.

These garments, of course, are invaluable to the fire-fighter, particularly in the oil, paint, and chemical industries, where heat generated by fires is intense.

Other needs for protection

In the past decade, more and more acids, alkalis, and other chemicals have been used in plants. Many of these solutions are corrosive, sear the worker's skin on contact. Yet given the proper protective clothing, platers, chemists, dippers, and the rest can go about their jobs safely. Maintenance men can break safely into acid lines.

Precision industries which supply products to specifications within a microscopic fraction of an inch no longer need fear lint and dust will spoil their products.

Proper protective clothing for outdoor workers and for those subjected to sharp changes in temperature holds down costly absenteeism.

Have enough of what you need?

The smart safety director knows that unless he has sufficient protective clothing to meet his worker's specific needs his safety program is like a football team without shoulder pads. It's bound to get hurt. • •

Protective Clothing: Where and When To Use It

Heat-resistant clothing

For those working in extraordinarily high temperatures (ranging up to 2,000° F.), aluminized fabric is imperative. It reflects 90 percent of the radiant heat. The fabric underlying the aluminized surface must insulate the wearer against the remaining 10 percent. Aluminized asbestos or aluminized fiberglass cloth is usually used when temperatures are over 1,000° F., or when firefighters are compelled to move through burning areas. Those near fire often wear aluminized rayon suits. Clothing manufacturers distinguish between fire entry suits and fire proximity suits. Be sure you do, too. Otherwise, you invite tragedy.

Wear aluminized fabric only during periods of exposure to fire or heat. If worn continually, the fabric wears out quickly. That's because soft material is the best insulator against fire, yet lacks rugged wearing qualities.

Especially treated asbestos clothing has been developed recently which is impervious to molten metal splash up to 3,000° F.

Our survey of 1,400 companies indicates 29 percent of industrial plants use some kind of heat-resistant clothing. Among the applications most frequently mentioned by those who replied to the survey were these: working around kilns, pouring molten liquids, heat treating, furnace tapping, handling hot iron castings, firefighting and rescue.

Flameproofed clothing

In a strict sense, "flameproofed" is a misnomer. "Flame-resistant" or "flame-retardant" is more accurate, since this kind of clothing retards or resists the spread of fire. Manufacturers chemically treat the surface of ordinary work clothes so that they will char, rather than burn.

Until very recently, high quality flameproofed clothing could withstand 8 to 10 launderings or drycleanings before losing its fire-retardant strength. Some manufacturers now have raised the figures to 30 or 40 launderings.

Flameproofed clothing is most effective where temperatures are not excessively high, but where there are spark and splash hazards. Leather protective clothing, particularly chrome leather, and plain and treated asbestos are also useful to combat these hazards.

Twelve percent of the plants we surveyed use flameproofed clothing; 38 percent use leather. Some of those plants, of course, use them in combination. One firm in the aircraft industry that employs 2,500 spends $17,000 a year on flameproofed clothing, including laundry costs.

Among the applications cited for flameproofed clothing were: welding, heat treating, brazing, ladle operating, lead burning, furnace and mold tending. Companies provided chrome leather clothing for grinders, blacksmiths, linemen, welders, burners, and hammer operators.

continued on next page

continued from page 31

Chemical-, acid-, alkali-resistant clothing

THERE ARE two basic categories: Clothing with especially treated surfaces. Blends of Dynel, Dacron, Orlon, and nylon, with built-in chemical-, acid-, or alkali-resistance. Some blends are almost lint-free, an important consideration for precision parts, food, and pharmaceutical manufacturers. There are also 100-percent synthetic materials which are static- and acid-resistant.

Rubber and neoprene-coated materials are used extensively to war on some chemicals as well as on oil and grease.

In ordering clothing in this category, be sure to spell out your requirements in detail and to heed manufacturers' recommendations. Thirty-six percent of the companies responding to our survey reported using clothing specifically treated or tailored to resist acids and chemicals.

Applications included: plating, dipping, tank and pit cleaning and degreasing, pumping acids from carboys, and such specialized applications as handling battery acid, decontamination, and electrolysis.

Outdoor clothing

RUBBER, synthetic rubber, cotton, or wool clothing protects outdoor workers and those whose jobs subject them to marked changes in temperature.

Rubber and synthetic rubber give good protection against wet conditions. Many synthetic rubbers are also grease- and oil-resistant.

Wool insulates against both heat and cold, and wears well. Cotton is durable and easy to care for. New plastic sponge linings are gaining in popularity because of their light weight and strong insulating properties. Insulated underwear, also, is available for those who prefer the least possible outer clothing.

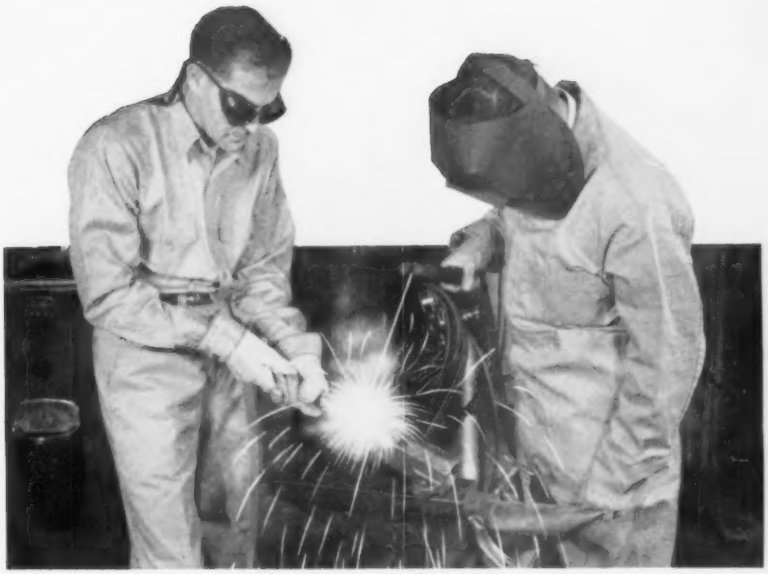
Disposable clothing

SOME PLANTS in the drug and electronic industries and others whose workers handle radioactive materials and certain strong resins use disposable paper clothing. The paper is nylon-threaded, resists fire and water, has less tendency to pick up contaminants than conventional cloth clothing. It's cheap—burn it after use.

Specialized clothing

THE MOST RECENT development in protective clothing outfits the wearer for a trip to the moon. It weighs 50 pounds, but is, of course, weightless once it leaves our gravitational field. The new suit is a modification of one designed specifically for people who handle toxic missile fuels. Inside this suit, which covers the wearer from head to toe, a man breathes clear, airconditioned air, however badly contaminated the surrounding atmosphere. The suit protects the worker amid poisonous fumes, as well as outfitting him for fire and mine rescue work. • •

Credit where credit is due: Illustrations for the cover and the special section on protective clothing came from Chicago Eye Shield Co., Chrysler Corp., Dow Chemical Co., E. I. du Pont de Nemours & Co., Minnesota Mining & Manufacturing Co., M. Setlow & Sons, Inc., Woodward Governor Co., and Worklon, Inc.



An Occupational Hazards Reader Report

38 of Every 100 Plants Provide Work Uniforms

YESTERDAY's plant worker reported for duty wearing a pair of ancient, grease-spattered work pants, complete with oily rag hanging out of hip pocket. He wore a blue work shirt that was celebrating its fifth season in use and that bore some of the scars of age, notably at elbows and collar. It was a colorful costume which went comfortably with a sloppy work environment.

Today's uniformed industrial worker presents quite a contrast. He's far too well-dressed to feel at home amid the unkempt surroundings which breed hazards. Chances are his work uniform is designed to resist grease, and his pockets are deep enough to cover wiping cloths. Today's worker is safer.

Yesterday's worker still lingers like a bad habit in some plants, but he's losing ground.

More than half pay full cost

Thirty-eight percent of the firms that replied to an OCCUPATIONAL HAZARDS survey of 1,400 safety directors supply some of their people with work uniforms. That's a big gain since similar studies were conducted a decade ago.

We broke the 38 percent down to gauge the extent of these programs.

► Twenty percent supply less than 25 percent of their employees with uniforms.

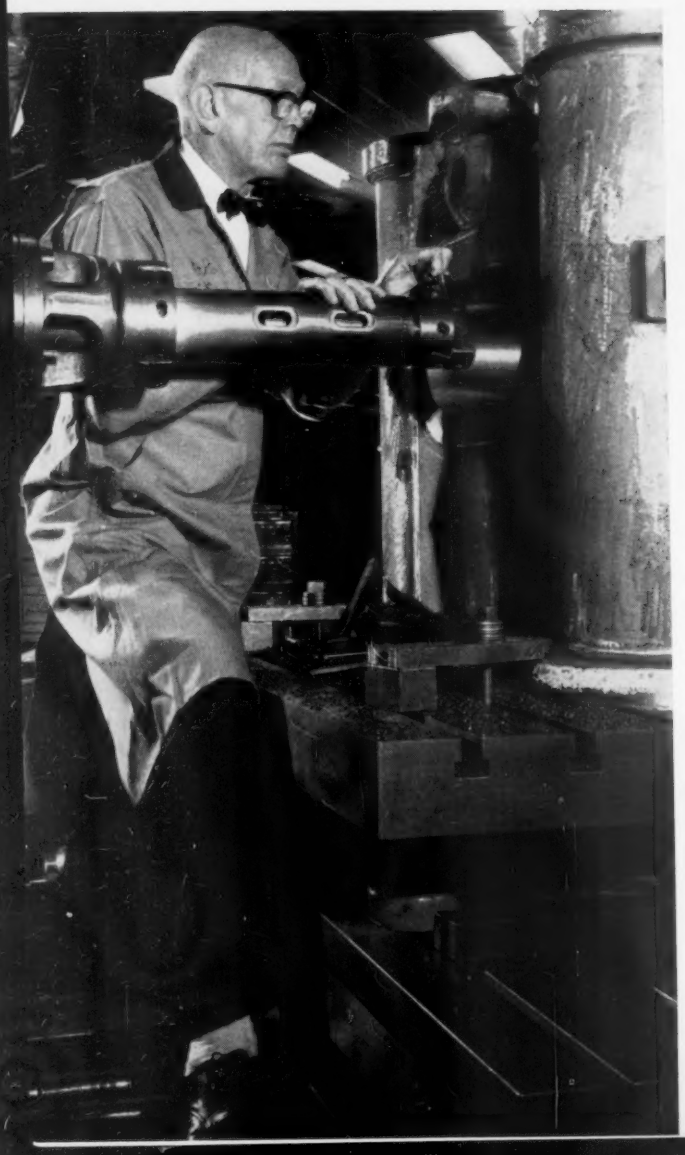
► Another 10 percent outfit everyone in the plant.

► The rest of the firms (8 percent) supply uniforms for more than 25 percent and less than 75 percent of their production people.

Nearly half the firms that supply work uniforms pay the entire cost. Another 18.5 percent split the cost with the worker. Workers employed by the remaining 37.5 percent of plants pay for their own work uniforms.

Some firms settle for outfitting plant protection men so they can be immediately identified as having police authority on plant premises. Others see that supervisors have shop coats for much the same reason. Machine shop workers are often provided uniforms with built-in protection against grease, oil, and abrasion. Those who work in clean rooms are outfitted in lint-free fabrics.

Safety directors, the survey showed, order work clothing with an eye toward specific characteristics and wearing qualities, rather than cost alone. • •



WORK UNIFORMS raise morale, improve appearance, help assure safety at Woodward Governor Co. plants. The company has had a 100-percent work uniform program since 1936. Woodward produces engine governors of many kinds.

Everyone's Wearing 'Em

If you spot a man in the shop at the Woodward Governor Co. plant (Rockford, Ill.) who is not in uniform, he's either a visitor or a Woodward executive. All employees in the shop, laboratory, or drafting rooms *must* wear shop garments or bench coats.

You see a number of types and styles—long and short coats, long and short sleeves, coveralls, shirt and trousers. Job requirements and job hazards dictate a worker's dress.

25 years of uniforms

Woodward has had a 100-percent work uniform program since 1936. Company officials say that among the reasons for the program is the contribution work uniforms make to ". . . neat appearance, good housekeeping, and accident prevention."

Asked if the program boosts morale, Fred Crawford, safety manager, replied:

"We think so. It permits the shop worker to come to work dressed in the same manner as the office worker. Building a precision product like our controls requires skilled craftsmen, and we feel for a person to do his best work, he must have pride in his job, his company, and himself." • •

Circle No. 30 on reader service card →

NEW SAFETY SOLVENT HAS LOW TOXICITY

CHLOROTHENE® NU cold-degreasing solvent has all the desirable characteristics of the nonflammable chlorinated solvents *plus* less toxicity. Maximum allowable vapor concentration is a high 500 ppm compared to carbon tetrachloride at 25 ppm. Chlorothene NU shows outstanding superiority in its resistance to fire—it has *no* fire or flash point measurable by standard methods!

This combination of low toxicity and no flash point has led to the wide use of Chlorothene NU in production and maintenance cold-degreasing operations. Chlorothene NU specially inhibited 1,1,1-trichloroethane has an excellent low-corrosion record. It can be used safely on most electric motors, instruments, all common metals—including aluminum, zinc, and corrosion-prone "white-metal" alloys, and many plastics. It is easily recovered by distillation.

Use Chlorothene NU in *your* cold degreasing. Contact your distributor of Dow solvents for complete information about its safety features, uses, recovery and cost. Ask him about Dow trichloroethylene, perchloroethylene and methylene chloride, too. Or get in touch with your nearest Dow sales office.

SEE YOUR DISTRIBUTOR OF DOW SOLVENTS FIRST!

THE DOW CHEMICAL COMPANY DOW Midland, Michigan

A BASIC GUIDE TO SAFETY MANAGEMENT

Part II

Safety Education: The Course No One Can Afford To Fail

We continue here a 12-part series on the fundamentals of industrial safety management. We have no pet theories of statistical control, no prejudice that favors one kind of successful program over another. We report, instead, as simply as we can, how to set up a safety program, what you need to keep it going, and how it will benefit your plant. Even if you have a program now, you will, we think, find ideas here that will help you.

How To Plan a Safety Program
THIS MONTH ➧ *The Course You Can't Afford To Fail*
NEXT MONTH ➧ *Where Does the Supervisor Fit?*
Top Management: Cornerstone of Safety
Inspection: Useless Without Followup
Learning From Experience
Fire Prevention: Fight for Survival
Two Keys to Workers' Welfare
A Clean Plant: Safety's Strong Ally
Fill the Gaps in Your Knowledge
Your Role As a Good Neighbor
Adapting Safety Basics to Your Plant

REMEMBER your school days? From whom did you learn the most—the impersonal teacher who droned on in a monotone, who was condescending, humorless? You probably reacted to him as a man would who had just swallowed two sleeping pills.

The courses you got most from probably were taught by someone who combined knowledge with enthusiasm, who punched across his message in bright, informal language.

As safety director, you have many opportunities to copy your favorite teacher. You teach safety fundamentals and fine points to workers, foremen, safety committeemen, individually and in groups. To do this effectively, you must organize a curriculum, take the rough edges off the ways you express yourself, and use whatever visual aids will help put over your story.

Your first contact with the worker begins the day he is hired. It depends on you whether the new man regards safety as important.

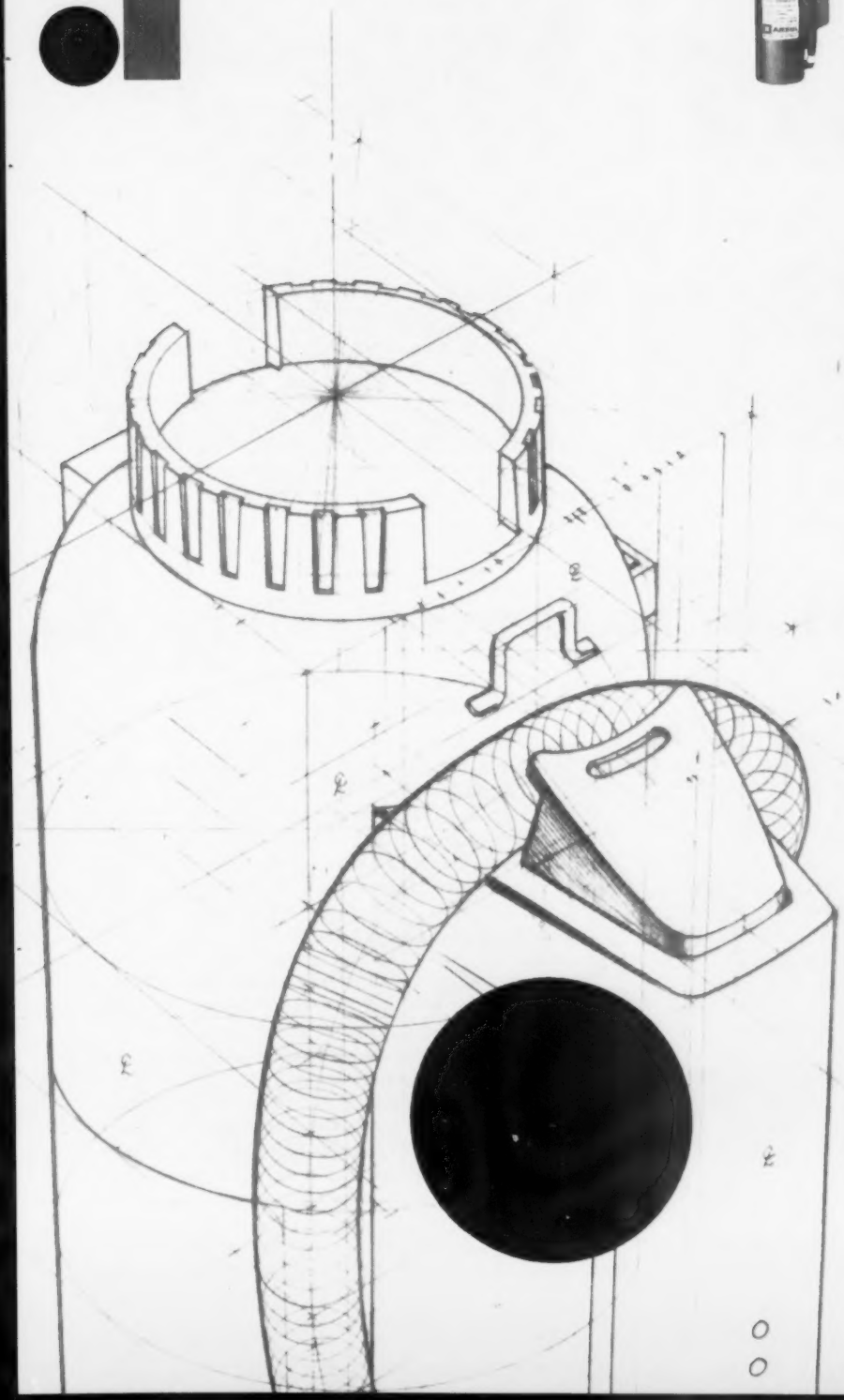
Make good use of employee manuals

Most firms issue employee handbooks. See that safety gets prominent mention—at least a chapter—in yours. Text should be simple, straightforward, clear, even to people unacquainted with your industry. Avoid technical terms. Use short sentences.

Go over the safety materials in the booklet with the new man, paragraph by paragraph. Don't under any circumstances hand him the booklet with instructions to read it on his own time. He may have the best of intentions, but there are long odds that the booklet never will get anything more than a cursory reading.

continued on page 78

Circle No. 31 on reader service card ➟

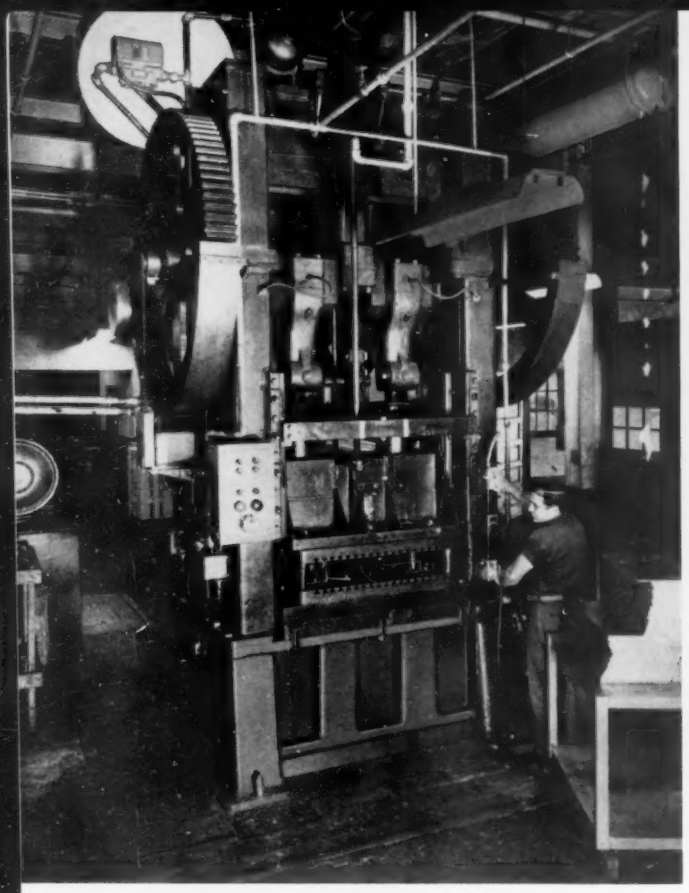


Ansul fire extinguishers cost more... they also put out more fire, last longer and are far less expensive to maintain.

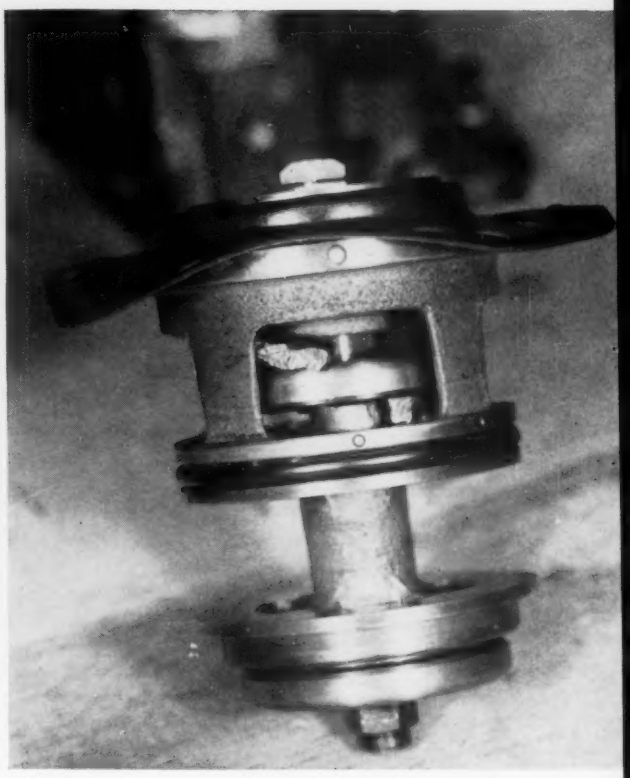
● On 15 important counts Ansul hand extinguishers exceed the UL Safety Standards by anywhere from 20% to 333%. These extinguishers are built for men who look at PRICE but understand VALUE. Perhaps that's why those plants with the most dangerous fire hazards... those men who know fire protection best rely on ANSUL.

Your local ANSUL MAN (he's listed in the "Yellow Pages") would welcome the opportunity to consult with you on your fire protection problems. He'd also like to prove why dollar for dollar, Ansul is your best buy. If you'd like to have our latest catalog, describing in detail the complete Ansul line of hand portable dry chemical, carbon dioxide and water extinguishers ...wheeled and stationary units... mobile equipment and automatic systems, write Ansul Chemical Company, Marinette, Wisconsin.

ANSUL



THIS PRESS WON'T REPEAT. But without the special dual service valve shown at the upper left, it could.



MEN LOSE HANDS in presses that repeat because single air valves are jammed open by scrap metal.

How To Prevent Many Air

Until recently, the only control for pneumatic clutches and brakes of air clutch-brake press drives was the single air valve. Failure of almost any valve part could cause a press repeat that might maim the operator. If a magnet stuck, a piston froze, a pilot failed, or a main valve unit was jammed open, the press would repeat. Not even shutting off all electrical power would stop the stored energy of the press as long as the single air valve called for another stroke.

HERE ARE some examples of what caused faults in single air valves:

► In a test, a valve disc broke after several million operations. This was not surprising during development. But it could happen in a factory.

► A size 10-32 screw blown into the valve from the airline jammed one valve.

► Large chunks of brass blew through an airline and into a valve on a press in an automotive plant.

► In another plant, a piece of slag blew into an air valve. It stuck the valve operating pilot.

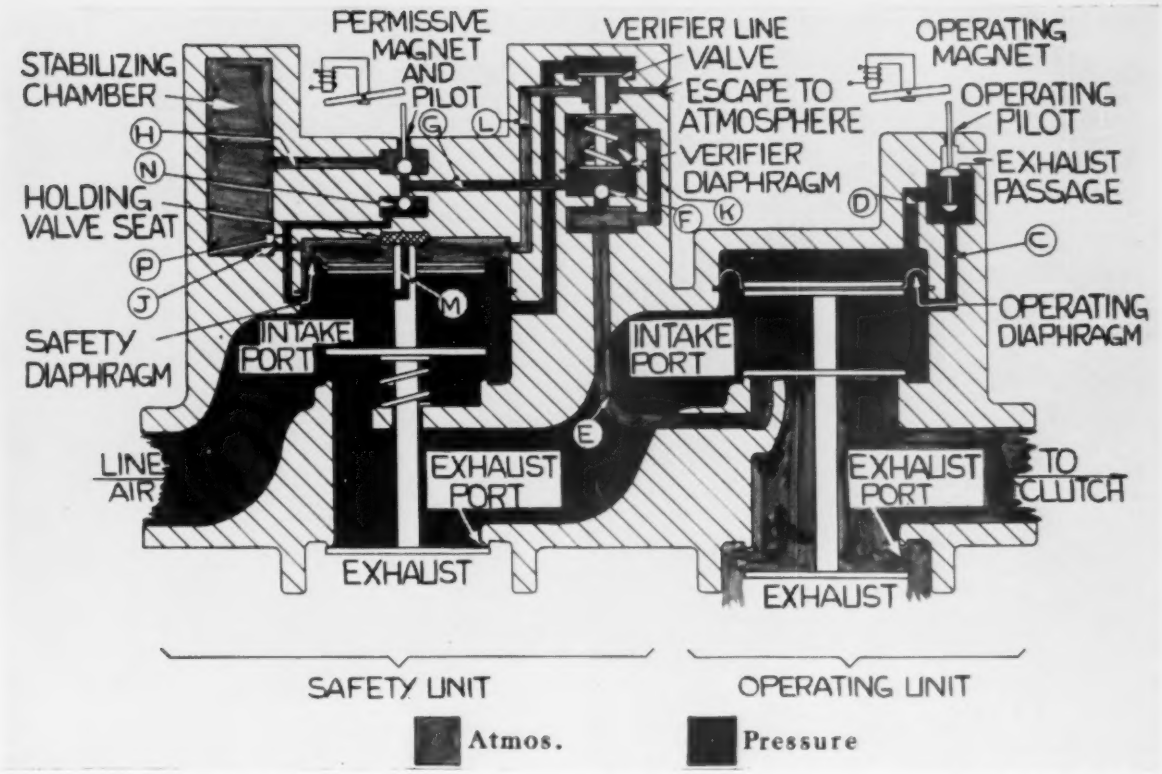
► Damage to a valve assembly during maintenance made one valve stick when the press was started.

If a single valve faults, the press repeats. The cure is to use two valves, or a dual valve. The dual valve has an air supply system that requires at least two simultaneous failures before it can fault.

Ways to beat the hazard

There are several approaches to dual valve safety. The most common is to put two valves in parallel. Included in the parallel connection are the two magnets (in the electrical circuit) and both main air valves and their pilots (in the pneumatic circuit). The valves have common inlets and outlets and two large exhausts, which usually share a single exhaust chamber. The valves work together for each press stroke. This leaves the possibility of duplicate, simultaneous valve failures, because the twin units work at the same frequency.

An earlier approach was to install two valves in series, connected in parallel electrically, with both units



A SURE CURE for single air valve failure: Use a dual valve, so that one is on standby for immediate operation in case the regular valve faults. In any case, install all valves so they fail safe, no matter what their application.

Clutch-Brake Press Injuries

operating at once. If the first valve on the line end jammed open, nothing indicated the fact. The press operator was left with single valve safety, and did not know it.

A third approach is to use two valves in series pneumatically and in parallel electrically. Half the dual unit does not operate, but stands by ready for emergency use should the operating valve fail. This type of valve installation almost eliminates the possibility of a press repeat. It takes a second and simultaneous fault to make the press repeat.

The basic premise for press safety, in either the air or the electrical circuit, is this: *At least two failures must occur at the same time before a repeat can take place.* But these conditions also must be met:

1. The air valve must trip out, shutting off the air supply and exhausting the load, any time a fault occurs. This includes even partial faults that may result in low pressure at the clutch and brake. Although the air pressure trapped at the load may be lower than is necessary to engage the clutch, it may still reduce the torque available from the brake and let the press coast through a repeat, removing the operator's finger.

2. Any valve fault must stop the press and keep it stopped until the fault is cleared. If a valve can fault and continue in operation with the fault undetected, a good deal of the extra safety brought about by the dual valve is lost.

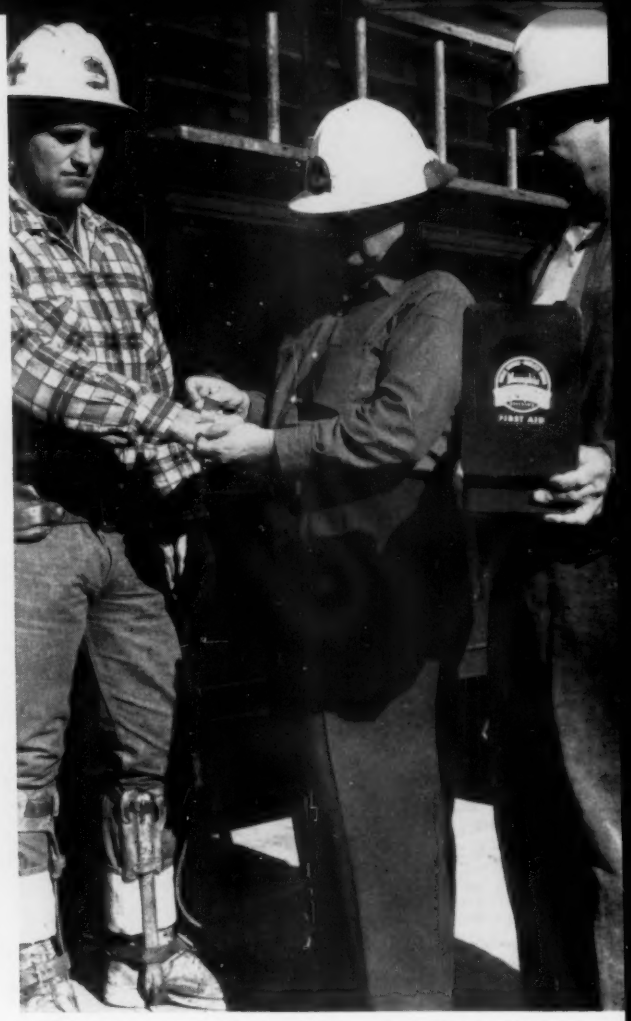
3. All safety features must be capable of quick, easy checking from the operator's position. But primary safety features must be automatically checked. Equipment that works when its safety features are not in good order certainly is not safe.

4. A safety valve never should trip out for minor faults that would not cause press repeats. For example, if an object lodges under a seat and then blows free, the operator must be able to reset the valve easily so that production can be quickly and safely resumed.

5. Valve installation should be simple. The installation and its piping should not materially affect air flow or normal operation of clutch and brake. • •

Harold J. Cotshott, project engineer, Clark Controller Co., supplied the information and illustrations for this article.

SAFETY This display spotlighted not only hazards, but the mental lapses that can cause accidents on power poles. "The display afforded images that stay with electrical workers a long time," says the author.



FIRST AID Every Memphis Light, Gas & Water Division vehicle used in construction or repair carries a first aid kit. Here, an overhead lines construction and maintenance foreman and a driver-clerk give aid to an injured lineman.

The Masters of Mishaps

The Memphis Light, Gas & Water Division is a city-owned public utility. It employs 3,300.

The division has an electric generating station, four water pumping stations, a gas compressor station, and a standby propane storage yard. It has a gas pipe coating building, transformer and maintenance shops, a heavy construction equipment repair and storage garage, and a five-story administration building. All buildings must meet the division's own fire protection, sanitation, and safety standards.

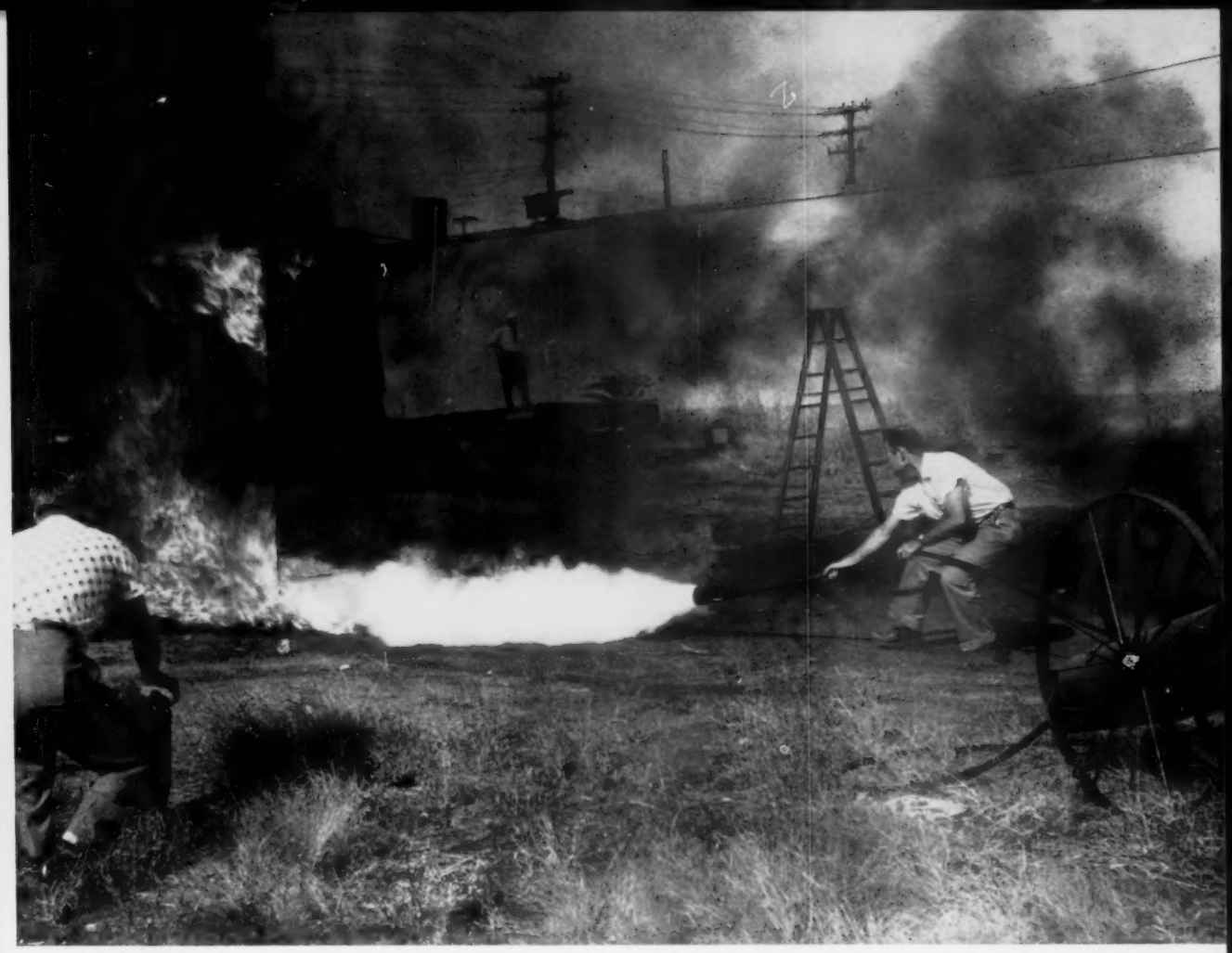
The division has more than 600 vehicles. Many are field shops from which men lay pipe and cable and string overhead distribution, telephone, and transmission lines. Almost every type of trenching, excavating, and crane equipment is used. Author Charles W. Rittelmeyer is supervisor of safety.

LAST YEAR, Memphis Light, Gas & Water Division employees celebrated winning three national safety awards. The American Public Power Association conferred third place award on the electrical workers. The American Waterworks Association bestowed the award of honor on division waterworks employees. Gas construction and distribution and operation people took the award of merit from the American Gas Association.

Balanced program behind success

Behind these awards is a well-balanced safety program. It includes these elements:

1. A general safety committee.
2. Department safety committees.



FIREFIGHTING Division employees practice at least once a year with portable fire extinguishers of all types. The division maintains a training field where every kind of fire, from class A blazes in trash baskets to flames from a leaking buried gas main, can be set off. At this rehearsal, a safety man stands at alert with a dry chemical extinguisher while the worker at the right uses a big wheeled extinguisher on a roaring practice fire.

in Memphis

by Charles W. Rittelmeyer

3. Safety data sheets, bulletins, and leaflets.
4. A safety house organ.
5. Training courses on fire protection, industrial hygiene, supervisory methods, first aid, health, and safety.
6. Magazines, books, and films.
7. Statistical service.
8. Contests.
9. Fire prevention and protection.
10. Display boards, exhibits, and other visual aids.
11. Nonoccupational activities for the benefit of employees, customers, and the public.
12. Awards, entertainments, and ceremonies to recognize good safety performance.
13. Survey of accident costs and safety work.
14. Promotion of defensive driving among those who handle company vehicles.

The division's safety department was set up in 1941. Ever since, the standardization engineer has been chief coordinator and chairman of the general safety committee.

Accident prevention centralized

Fact-finding on accident control was centralized. Policy requires the safety department to assemble, study, and distribute to supervisors and managers the facts about disabling work injuries and medical cases. This centralization, with the prompt circulation of data about accidents and injuries, has enabled supervisors to take immediate corrective action to prevent similar incidents in the future.

continued on page 52

INSIDE WORKER—not at a Li'l Abner skonk works, but at a Wisconsin paper mill—crawls out of the mill's white liquor clarifier. It takes 5 days to pump out the clarifier, wash off the sludge gathered during a year's unending operation, repair the rake and plows, and pump liquor back into it. The Nekoosa-Edwards Paper Co. follows standard safety practice for cleaning vessels of this kind. E. Berryman is safety director.

Closedown for Cleanup

BOLT-TIGHTENING is part of the regular spruce-up, fix-up, over the Labor Day weekend. This pipefitter makes sure bolts that connect a digester cone to a blow valve will stay tight.

WHAT'S SPRING housecleaning for most women and many plants is Labor Day housecleaning for the kraft mill of Nekoosa-Edwards Paper Co., Port Edwards, Wis.

That's the best time of year for the 100-man maintenance force to do the spruce-up job necessary to keep mill machinery running well. A lot of ordinary housekeeping goes into the job, as well as a lot of highly specialized mechanical and electrical work.

The job really begins in June. Production and maintenance men get together to plan the furious work to be done over the Labor Day weekend, to inspect mill machinery and equipment, and to order necessary materials and parts.

Master Mechanic Joe Wipfli issues a work schedule based on the early planning. In 1960, the schedule called for 92 projects that ranged from cleaning chipper bearings in the wood room to painting the giant preretention tube on top of the chlorine dioxide stock tower.

When the job comes to a climax, the mill closes down. Advance planning holds the length of the closedown to the shortest possible time. Any extra days without production mean thousands of dollars lost.

While the annual cleanup has as its chief aim keeping the production wheels running, there's another purpose behind it that many plant managements overlook: *safety*. Last year, for example, the cleanup included replacement of a worn valve in the acid plant. Letting the valve go uninspected and without replacement could have meant that some workers would get a face full of acid. It's happened in other places many times. • •

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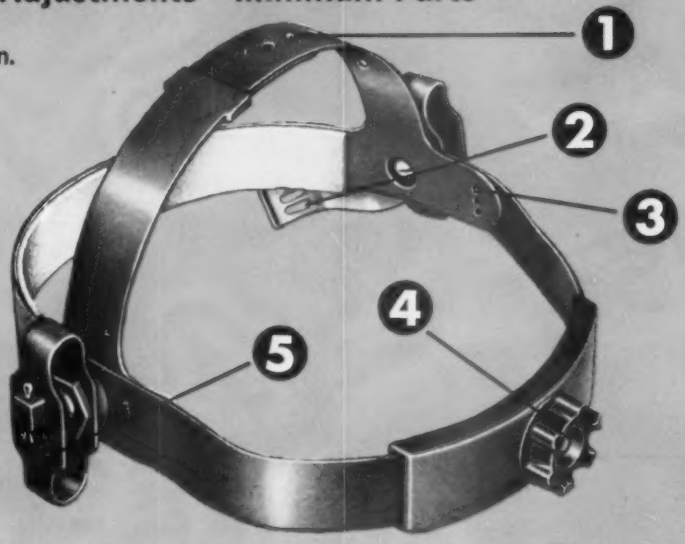
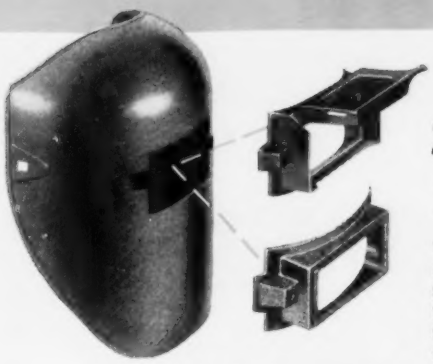
NEW "WARRIOR"
Welsh Welder's Helmet

Most Complete Headgear Adjustability, Easily Interchangeable Front Frames!

5 Fast, Easy, Headgear Adjustments - Minimum Parts

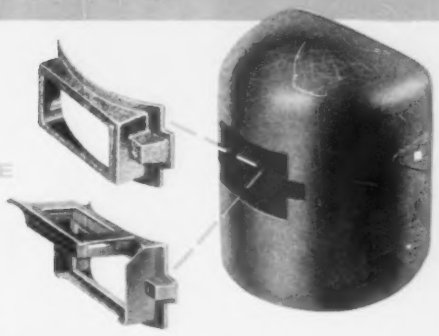
1. Simple pinlock adjusts to head crown.
2. Three-position stop for lowering helmet.
3. Fast, simple, pinlock, rear section adjustment to ball of head.
4. Large, easy to grip, long-life, nylon ratchet adjustment to desired head size.
5. Four position, swivel lock adjustment for raising, lowering and in-and-out positioning in relation to face.





2 EASILY INTERCHANGEABLE FRONT FRAMES

Two screws—easily removed and inserted—and you can switch fixed or lift front frames to either curved or straight Welsh fiberglass shells.



One headgear, two front frames and two basic shells from Welsh—the simplest, most complete welding helmet protection! Easiest, fastest headgear-to-helmet assembly. Foam sweat band for extra comfort. Write today for bulletin and prices.

WELSH
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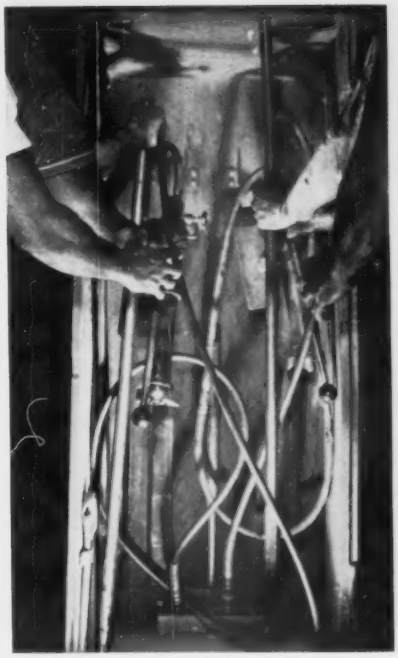
SEVENTY-FIVE SECONDS—that's all it takes for this plant rescue team to free the trapped rubber mill operator.

To

TEAM members answer alarms on the run, carry the tools they need with them.

STRETCHERS and asbestos blankets stand near the mill. Some rescue equipment is in a wheeled box to speed movement.



CREWMEN grab for hose, to douse cold water around the victim's hand and arm.

the Rescue — Quick!

MOMENTS BEFORE rubber goes on a rubber mill, it's a gooey mass. Mill rollers squeeze it into a sheet.

The operator guides the rubber onto the lower roller. This can be dangerous—his hand may stick to it. Then the roller pulls the operator toward the bite between the rollers, where heat generated by friction builds to 300° F.

A shut-off device, inches way from the operator, lets him stop the mill immediately. There's little danger his hand and arm will be crushed. He can, however, be badly burned unless he's released in a hurry.

How they answer the alarm

General Tire & Rubber Co., Akron, has a rescue team that can free a trapped mill operator in 1 minute 15 seconds. Photos show the team in action.

When an operator is caught in the mill, he shuts it off and yells for help. The worker nearest him runs to an alarm box (there are two in the mill area) and sounds a blast until all crew members arrive at the alarm station.

Each crewman has a special assignment. He responds to the alarm on the run, brings with him the tools or rescue equipment he'll use. This equipment is in easy reach.

What they do at the scene

When they arrive at the scene, two crewmen back off the mill screws 3 inches. One goes under the roll, cuts across the rubber sheet close to the bite of the mill. His partner removes rubber from the hand and arm of the trapped worker with a knife. If this doesn't work, four crewmen jack up the rolls, pry the rubber loose.

Other crewmen meanwhile wrap the operator's hand and arm in an asbestos blanket to protect them against burns, douse the area with ice water.

When the operator is freed, he's placed on a stretcher and rushed to the dispensary. • •

NEW/MATIC PORTABLE GLOVE TESTER

Test linemen's gloves immediately, efficiently, **anywhere** with the new Bullard lightweight NEW/MATIC Tester! So compact and economical that it can be standard equipment on every line truck.

Now—any time or any place—linemen can **daily double-check** the airtight safety of their gloves with just a few strokes of the pump. The Bullard NEW/MATIC Tester is available in two sizes: Catalog No. GT-A for glove size 9 with 14", 16" or 18" gauntlet, and glove size 10 with 14" or 16" gauntlet; Catalog No. GT-B for glove size 10 with 18" gauntlet, and glove size 11 with 14", 16" or 18" gauntlet.

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E. D. BULLARD COMPANY
SAUSALITO • CALIFORNIA

TEST GLOVES DAILY FOR CRACKS • TEARS • PUNCTURES

What's Wrong Here?

1. Hose twisted around ladder
2. No shielding for sparks
3. No hard hats worn under overhead work
4. No gloves or face shield where sparks fly.
5. Hose coiled loosely at foot of ladder welders use
6. Flammables scattered about floor
7. Flammable liquids, but no safety can to hold them
8. Men don't wear dark glasses to watch welding

You may find hazards like these in your own plant if you use this . . .

12-Point Plan for Fire Inspection

HANDING an untrained man a checklist and relying on him to unearth your hazards is about as sensible as having a Cub Scout direct traffic at Times Square.

That's the idea behind Robert J. Harmon's 12-point plan for fire inspection. Harmon is first assistant Ohio State fire marshal. You don't need a big plant to put his plan to work, but even a full-fledged, carefully trained fire brigade will find his suggestions helpful.

Our photo, for example, came from a plant whose general manager talked long to an OCCUPATIONAL HAZARDS editor about how good his safety and fire protection program was. Like many others, the manager overlooked dangers simply because he was so familiar with them. In "What's Wrong Here?" we've noted only the more obvious dangers. If the manager had used Harmon's 12-point plan, not one of these dangers would have shown up in the picture.

Now to the 12 points.

The points are simple

1. *Figure out what to tell management.* If you can sell executives on the need for a better inspection program, fine. If you can't, you'd better change jobs. Plan carefully what you'll say to the boss, or what you'll tell him in a memo. Hold back some facts in case your first barrage doesn't quite soften his position. Don't promise too much. If your program doesn't produce what you say it will, it will be a hot day at Thule before the boss will listen to you again.

2. *Watch for individual hazards.* Doesn't everybody? Certainly—but so did the foremen and the general manager of the plant where we got our photo. You need to learn what to watch for. A trained driver learns to anticipate what other drivers will do. You and your inspectors must learn to anticipate hazards—to predict them even before they become hazards. This ability is something most plant firemen and foremen don't have. Hence, comes your training program for inspectors.

3. *Call a meeting to organize the program.* Don't try to get everybody into the act. Call in only enough people for a nucleus—a planning group that's really interested in making your plant more nearly fire safe. Be sure to include the safety and security departments, if they're separate from fire. And be sure to include a top production executive. Assign each member of the group something to do: finding out more about your special hazards, selecting inspectors, arranging final organization of the inspection crew, determining how and when inspectors will be pulled off production jobs long enough to make inspections.

continued on next page

Circle No. 57 on reader service card

NORTH PVC CLOTHING

IT'S LIGHT, FLEXIBLE AND COMFORTABLE

When rain falls and wind howls, outdoor workers of all kinds don North PVC Wet-Weather Clothing by Jomac to keep dry and comfortable. And they move with complete freedom because of set-in sleeve design and generous cut.

Seams are shielded and electronically welded to assure leak-proof garments. PVC buttons are welded to give troublefree service.

Insist on Jomac gloves, hand guards, pads, mitts and sleeves for outstanding hand-to-shoulder protection. The loop-pile fabric is cut, abrasion, heat and wear-resistant—and washable.

Insist on North PVC gloves for better fit, greater dexterity, more comfort, longer wear, and maximum safety in handling most chemicals, oils, greases, etc.

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"JOMAC Sells Quality . . . and Quality Sells JOMAC!"

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Fire Inspection

continued from page 47

4. *Tell inspectors not to smoke on their rounds.* Bob Harmon says this vital item is often overlooked. If a fire inspector smokes while he looks for fire hazards, he not only sets a bad example—he may endanger himself and everyone around him. Harmon tells of an inspector who started a fire himself by smoking near a leaking gas line. Nobody knew the line leaked, but that didn't prevent the gas from burning. Harmon says the story is only an illustration, but it *could* happen almost anywhere.

5. *Organize according to your needs.* The kind of inspection service you have, like what your inspectors have to know, depends on the business you're in. Dangers in a chemical plant are entirely different from those in heavy construction. A clothing manufacturer with his plant in a loft can't use the same inspection program that an aircraft manufacturer with 40,000 people scattered through 125 buildings must use. Don't rely on what somebody else does to outline your program. What works well for him may leave your plant unsafe.

6. *Tell everybody what you're doing.* Make sure workers know the inspection program is to protect them. Inspectors aren't appointed to snitch, but unfortunately a lot of people think they are. That's bad. You don't get willing cooperation from people who think of your inspectors as company spies. Hammer home the truth: Your program is to prevent loss of life, property, and jobs.

7. *Ask local fire officials to help.* Call them to your organizational meeting, if you can. Maybe they will provide teachers for your inspectors, suggest hazards to watch for, outline how to set up your program. Most cities send fire inspectors through plants now and then, but most small towns don't. Perhaps you can encourage more frequent public fire inspections by pulling your local department into your plant inspection program.

8. *Settle who does what and when.* This was mentioned briefly under point 3. The time and the who, however, can't be set rigidly

continued on page 95

SAFETY IDEA FILE

1. Checking dangerous oxygen . . . **below**
2. Tame magnesium dust . . . **page 83**
3. Trucks wear bells . . . **page 83**
4. Coffee machine talks safety . . . **page 84**
5. Contractors learn plant safety rules . . . **page 84**

AMERICAN CYANAMID superintendent uses an oxygen indicator to check atmosphere in a sewer, as foreman (left) and Safety Supervisor W. H. Ashby look on.

Mine Safety Appliances Co. photo

Oxygen Can Be Dangerous

Too LITTLE or too much oxygen in a closed vessel spells trouble. Too little, and the maintenance worker entering the vessel is overcome. Too much, and the whole plant can be blown to kingdom come.

Here's how maintenance men at American Cyanamid Co.'s Willow Island (W. Va.) plant avoid both possibilities: Before they enter the vessels, they test its atmosphere with a portable oxygen indicator.

Tanks, tubs, reactors, boilers, manholes, and pits get the full test treatment at various times during the manufacturing process. Not only vessels which store chemicals, but also those situated near or connected to piping for hazardous substances, are monitored.

American Cyanamid's plant instrument department checks each of its five indicator units periodically to insure their accuracy. If a maintenance man gets a danger zone reading, the instrument is calibrated in the free air, and a second reading is taken. If the needle again swings into the danger zone, the vessel is tagged out as off limits to all until it is thoroughly aired.

Testing is completed through the use of an explosion meter, which detects explosive gases or vapors in air mixtures.

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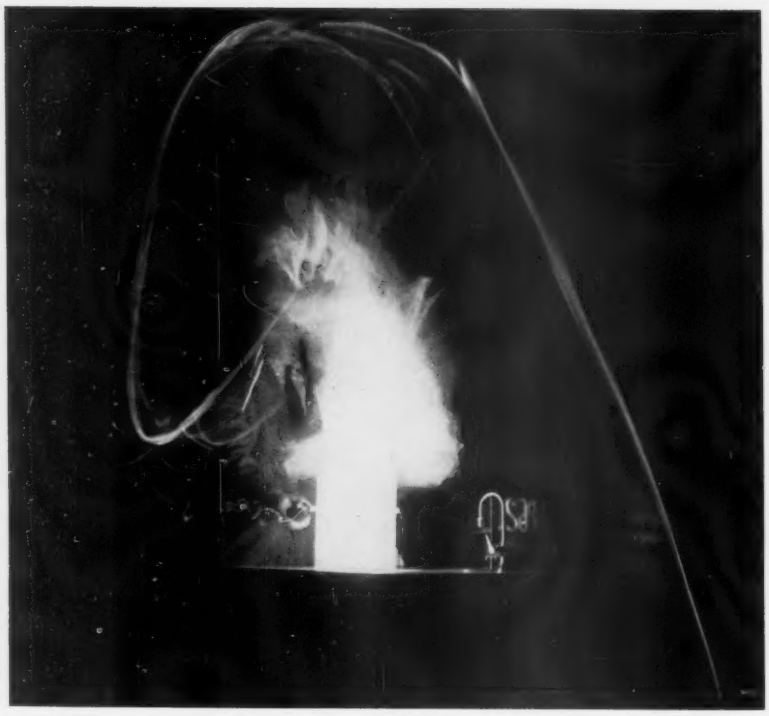

WHOOSH! is the best word to tell what happens when spark meets flammable gas. A Shell Development Co. chemist, during a lecture on safety at the company's Emeryville (Calif.) Research Center, got this result when he mixed 2 cubic centimeters of hydrocarbon with air and touched it off with an electric spark.

Spark Meets Gas — and Whoosh!

It doesn't matter much what your business is—static electricity probably is a very real danger for you. Rotogravure printers, textile printers, grain elevators, chemical producers, research laboratories, powder manufacturers, even metal fabricators, all have their difficulties with the tiny lightning bolts that static develops.

You can't eliminate static—not altogether. You can do a lot to control it. Don't wait until an uncontrolled spark sets off flammable vapors in your plant the way the demonstration spark did at the Shell Development Co. lecture. The little explosion at the lecture was contained, but a static spark that meets flammable gas or dust may wipe out your entire business.

How can you control static? There are many effective ways. Some of them are these:

► If you have two objects that conduct electricity, connect the two electrically. This is called bonding. Or connect the object that has or is likely to have a charge to a good ground. Bonding keeps both objects at the same electrical potential, and prevents any static discharge. Grounding draws away any charge as fast as it develops.

► Use a wire or cable to connect two containers when you pour or pump a flammable liquid from one container to the other.

► Cloth and paper accumulate static charges. Use static eliminators approved by UL or FM to get rid of these charges. The eliminators usually are tinsel, wire brushes, or metal points that pick up the static and drain it off through a grounded connection.

► In especially dangerous atmospheres, put people in cotton clothing. Other fabrics often generate static sparks. Some jobs call for conductive shoe soles, with workers standing on grounded metal plates.

► Keep relative humidity above 50 percent. Moisture collects on objects, generally drains away static quickly. Plate glass illustrates how this works. The glass is a thousand times more conductive in 50-percent relative humidity than it is when relative humidity is only 20 percent. The ability of moisture to conduct away static is one reason more static-produced fires occur in winter than in summer. Indoor air is drier in winter than in summer.

► Install a static detection alarm. You can rig it to signal with a buzzer, a light, even a siren, whenever static in a given area accumulates dangerously.

► Make sure there's plenty of oil between shafts and bearings. Oil is an insulator. A good oil film generally has enough resistance to prevent flow of static electricity.

► Don't rely on drag chains to ground trucks that hold flammable liquids. Most pavement is an insulator, and the chains can't carry off static charges. Ground the trucks, instead, to a carefully installed connection before you try to draw off any of the flammables they carry. • •

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FIREMEN are prepared to move right in on dangerous valve fires when wearing entry suits of "Scotch·Shield" Aluminized Fabric.

PIPELINE SWITCHERS are protected against possible "hot spot" accidents by working in "Scotch·Shield" Fabric proximity suits.

SAFETY MEN Bob Jewell and John Hogan believe in and practice maximum protection for SOHIO Refinery personnel at all times.

At SOHIO's Lima Refinery...

"Hot spot" men work safer in SCOTCH·SHIELD suits

ALUMINIZED FABRIC

"We believe in maximum protection against accidents—before they happen," says Safety Director John Hogan of the Standard Oil Company Refinery at Lima, Ohio.

"That's why all our maintenance men are required to wear aluminized fabric suits when working on steam pipes and around other hot spots. The same goes for pipeline switchers."

"In the event of a valve fire," says Asst. Safety Director Bob Jewell, "our fire brigade is prepared to move in fast. Their truck carries all the latest and best equipment, including fire entry suits of 'Scotch·Shield' Fabric."

REFLECTS 90% OF RADIANT HEAT. "Scotch·Shield" Aluminized Fabric for industry is asbestos or flameproof rayon, vapor-coated with pure aluminum to reflect almost all radiant heat. It is also highly resistant to sparks and metal splash. Garments of "Scotch·Shield" Fabric are lightweight, flexible, long-lived. They are available from leading safety clothing suppliers. For more information, write Dept. RCC-41, 3M Co., St. Paul 6, Minn.

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ALUMINIZED FABRIC

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HI-VOLTAGE LINEMEN'S GLOVES

Natural form fit—a standard feature of the White Rubber Company's linemen's gloves and mittens.

TWO-COLOR GLOVES available in black-on-red or black-on-yellow. Contrast of color reveals depth of cuts and snags.

CONTOUR CUFF GLOVE with 2" cutaway... allows extra freedom of movement... prevents glove from slipping off... gives full elbow protection on 18" length gloves.

SUNLIGHT AND OZONE RESISTANCE greatly improved by latest technical advances.

GREATER GLOVE FLEXIBILITY reduces hand fatigue, provides best comfort for the lineman.

PERMANENTLY ETCHED NUMBERS that you specify for positive identification and accurate records at no extra cost.

LARGE ROLL reduces creepage current.

GLOVE INFLATOR available for thorough and accurate visual inspection.

PERSONAL SERVICE by factory representatives to help you with your testing equipment and procedures — at no obligation or cost.

PHONE OR WRITE FOR DETAILS

WHITE RUBBER COMPANY
RAVENNA, OHIO

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Master of Mishaps

continued from page 41

Members of the safety department make many field trips to outside work areas. The purpose: to get direct knowledge of work methods and to discuss the supervisor's safety problems with him. We gather many useful suggestions this way that we can pass on to other supervisors.

The safety department uses every promotional idea it can find to get other employees to think—to help them become conscious of the need for their own safety, not part of the time, but all the time. Our safety men believe in these four steps in teaching: Prepare, tell, show, and correct or command. Emphasis is placed on *showing* in training meetings.

We have one or more paper cartons, each 16 by 16 by 10 inches, to hold visual aids on each safety subject. As soon as we get an idea for a visual aid, we get it and prepare a directional sheet telling how to use it. The material goes in the proper carton for future use. Before we adopted this system, planning for meetings was drudgery. The aids also act as props in producing slidefilms at our plant.

Pictures used liberally

The division owns the most modern film projection equipment: 16-millimeter motion picture, 35-millimeter sound slide film, and automatic 35-millimeter slide projectors. A tape recorder and programmer add voice and music when we present a series of color slides of employees at work or of hazards peculiar to their job. New films are added to our film library as fast as they become available. We keep an up-to-date file of free-loan films.

The division's two industrial photographers cooperate with the safety department to plan, write, shoot, edit, process, and title our own films.

Each safety man carries a camera on inspection tours and when he investigates accidents. Safe or unsafe work methods of employees photographed right on the job are more dramatic than posed shots. I recommend Kodak's *Photography in Law Enforcement* for those who use pictures to prevent accidents. It contains many good ideas for safety promotion.

"Sudden Injury" posted

We have a safety library containing thousands of books, pamphlets, catalogs, bulletins, and other literature. A properly catalogued library is invaluable for any sanitation, health, and safety program.

Coming soon . . .

Soon we'll give you some of the ideas the Memphis Light, Gas & Water Division has for meeting specific hazards. Watch for them!

Our own printer produces data sheets on supervisory methods, routine and seasonal hazards, safe practices, first aid and rescue, health, hygiene, and fire prevention and extinguishment. Extra copies of these sheets go to supervisors after an accident, to call their attention again to the safe practices missing in their work methods.

Paper drinking cups carry stock safety messages. We frame "Sudden Injury" posters from OCCUPATIONAL HAZARDS and display them on bulletin boards. Magazines on safety go to all supervisors. Self-evaluation quizzes help employees appraise their understanding of their jobs. National Safety Council membership decalcomanias appear on office doors throughout our buildings.

Targets build interest

A safety program must have targets to hold interest. When the targets are attained, recognition must follow promptly.

To recognize safe performances, the division publishes the "Safety Annual," a yearbook, in addition to bestowing seal of safety achievement, safe employee, and safe driver awards.

The "Safety Annual" covers every part of the last year's safety program. It lists and praises individual and group safety records. A letter from the president, published in the front of the book, analyzes

results of the overall safety program and congratulates employees on their achievements. The yearbook illustrates typical operations of each department, carries graphs and tables comparing department safety records and comparing current figures with those of prior years. Each employee gets a yearbook at the annual awards meetings.

These meetings in 1959 were held department by department, usually at the beginning of a work shift. The department superintendent presided. Award cards and pins were distributed, and the winner of the interdivisional safety contest was announced. Each meeting was followed by brief entertainment and refreshment. Last year, the awards meeting was a clambake.

The seal of safety achievement is an especially designed decalcomania. It goes on the door of a field shop truck, on a desk stand, or on a wall panel as evidence of a group's safety record.

At the top of the decal is imprinted: "The Seal of Safety Achievement. Awarded to this crew for their ability, skill, and enthusiasm in the prevention of disabling injuries in the years shown below."

Underneath this, each year the safety program has been active (1941-59) is blocked in, with half-inch figures for the years. Should a crew member suffer a disabling injury, the year the injury occurred is removed from the seal. The size of the bare space has about the same psychological result as a cavity in a tooth. This project has sustained great interest over the last 10 years. Many supervisors begin to inquire about their year's emblem on January 2, long before the record of injuries is complete.

Safety plan covers year

The "Monthly Safety Emphasis Program" is conducted the year round to help supervisors plan group meetings. A safety subject and current seasonal hazards are highlighted each month.

On December 1, every supervisor gets a calendar that shows the safety theme for each month of the coming year. A month in advance, we mail a planning guide to supervisors. The guide has facts to support the next month's theme, teaching outlines, suggested demonstrations, and possible stunts. A prime objective of this program is to assure continuous group effort, with new safety activities each month.

We revise a "Supervisor's Personal Protective Equipment Chart" periodically. The chart helps the supervisor determine what personal protective equipment should be used on each job in his department. It has five columns, headed "Part of Body," "Protective Equipment," "Jobs Used On," Maintenance," and "Where Obtained, or Recommendations."

First aid emphasized

First aid training helps prevent accidents. In any public utility, with crews working at widely separated places, it is vital that plenty of competent first aiders are available.

Division employees learn about asphyxia—the stopping of breath-

continued on next page

FYRE REPEL

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–Offers you maximum protection–

Where heat is a problem, Fyrepel has the answers. We are the world's largest fabricators of aluminized glass cloth heat protective clothing and equipment.* Fyrepel pioneered and were the first to test aluminized heat protective clothing for high heat and fire entry. Our staff of experts stand ready to serve you in working out your heat problems.

*Also fabricators of aluminized asbestos and flame proof rayon.

FIRE ENTRY RESCUE SUIT

Lightweight with carrying case - can be used with all breathing apparatus. Enter extreme heat and total flame in absolute safety - for repairs, maintenance, close controls, rescue and emergencies.

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Gives total protective coverage - enables wearer to approach extreme heat and stay there, using his fire fighting equipment to its maximum effectiveness.

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HOODS • ENTRY SUITS • PROXIMITY SUITS • HEAT CURTAINS • GLOVES • SLEEVES • APRONS • RESCUE BLANKETS • COATS & TROUSERS.

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FOR
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continued from page 53

ing. They learn Red Cross methods of artificial respiration. We have a practice power pole inside the transformer storage warehouse to teach poletop artificial respiration. To supplement manual methods, we have nine resuscitators scattered among vehicles and plants. A radio call will bring at least one resuscitator to an accident scene within a few minutes.

Much time went into developing the two sizes of unit first aid kits we use. The division emblem is silk-screened on the lid of each kit, without extra cost, by the supplier. One kit has 10 units. The other, with 16 units, includes a burn spray in small high-pressure cylinders. Men who work in suburban areas have snake bite kits ready for their use.

Fire prevention classes

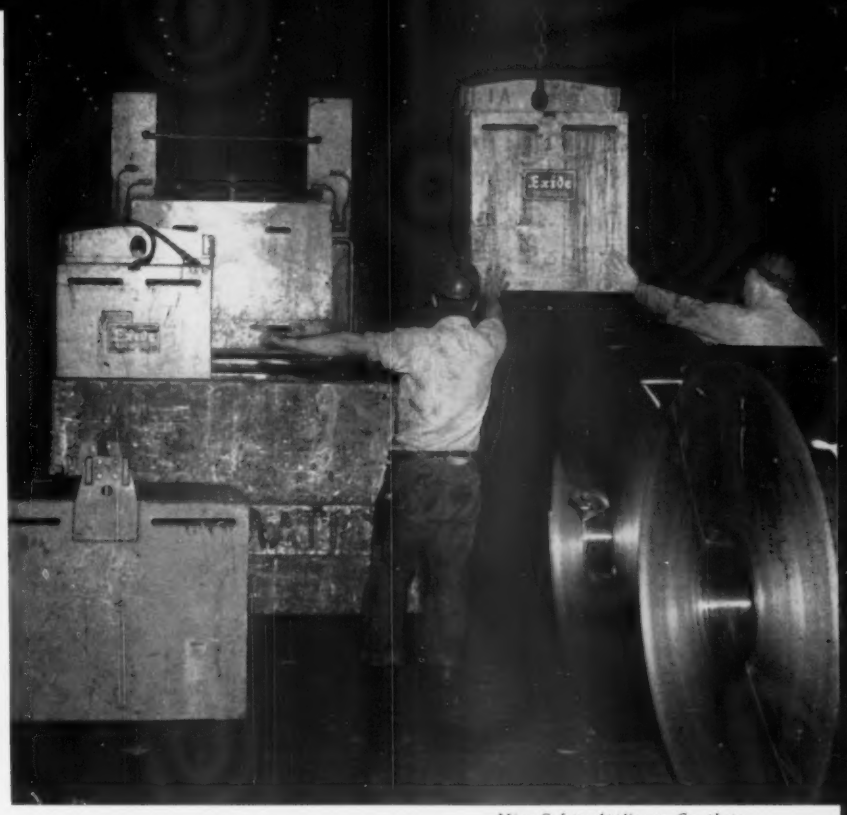
As part of our fire prevention program, representatives of several departments last year attended two 2-hour sessions on the characteristics, handling, and storage of flammable liquids.

The first session started with a motion picture entitled "Flammable Liquids." After the showing, each trainee answered a 50-question true-false quiz based on the film. When the quiz was finished, each man read a single statement from it and said whether he thought it was true or false. Then the question was referred to the group. When there was disagreement with what the first man thought, lively discussion broke out. The session ended with a film on fire extinguishment that reviewed the methods trainees learned earlier in the year on the division practice field.

A week later, the second 2-hour class covered safety containers, and vacuum and pressure relief valves and vents. The fire engineer of a manufacturer of this kind of equipment conducted the class. His lecture was accompanied by an equipment exhibit and demonstration. • •

One photograph for this article came from Medical Supply Co. Other photos were supplied by the author.

At Weirton Steel, hard hats saved 16 lives in the last 10 years



Mine Safety Appliances Co. photo

LOCK THE TRUCK—get away from its controls! That's the Weirton rule for the operator whenever loading or unloading goes on. He *must* wear a hard hat, too.

They Mark Off "Hard Hat Areas"

VISIT the Weirton (W. Va.) Steel Co. plant, and you feel you've joined the Turtle Club.

That's not only because you see so many men who wear hard hats. And it's not simply because you see sections of the plant marked "Hard Hat Area."

It's because you, as a visitor, must wear a hard hat or stay away.

Three in four wear head protection

In little more than 2 years, Weirton (a division of National Steel Corp.) has seen three-fourths of its men put on some kind of head protection.

Some departments require that all employees wear hard hats all the time. Others require hard hats on certain jobs or when heavy loads are moving overhead. Departments with 100-percent head protection include the coke ovens, blast furnaces, sintering plant, open hearths, blooming mill, and construction.

"We have plans," said Safety Director Milo Gray, "for similar mandatory protection for other departments in the future."

Gray has a lot of stories about workers whose heads would have been bashed in if they hadn't been wearing safety headgear.

"Safety helmets," he observed, "have saved the lives of 16 men over a 10-year period."

Weirton began only recently to put extra oomph behind its 20-year-old drive to get hard hats on heads. Labor has responded well. That's partly due to the tales foremen tell at safety meetings about how Bazil Freeland, of the open hearth, was clipped on the head by a 40-pound steel safety latch that fell 30 feet from a ladle crane hook. The latch broke his hat, but Freeland got only a headache.

Brilliant color coding used

Brilliant hat color identifies many Weirton jobs. Workers are assigned hard hat colors according to what they do. For example:

Supervisors wear white hats that have horizontal green stripes at the sides. (You always know when the boss is coming.)

Railroad workers wear yellow-and-red hats.

Company police wear dark brown hats.

You, as a visitor, wear a bright blue hat. • •

The North Carolina Division of the Weyerhaeuser Company sets an example in preparation for accidents on every level—high, low, and in between

AN ACCIDENT VICTIM rides the rescue squad's basket stretcher from high in the Weyerhaeuser Co.'s Plymouth (N. C.) pulp mill. With him, rides Bill Manning on the

Are You Ready for High-Level

A man's foot slipped. He fell from a catwalk into a tangled web of girders and piping high above the plant floor. Seconds later, a member of the first aid team was comforting him while Bill Manning directed rescue squad work from down below.

It took only a few minutes for the squad to finish. The injured man was strapped in a basket stretcher, rode quickly and safely to the floor where an ambulance stood waiting.

ACCIDENTS like this aren't common at the Plymouth (N. C.) pulp mill of the Weyerhaeuser Co. When they do happen, the mill rescue squad is ready. Bill Manning heads the squad.

The incident we described happened at high level. Low-level accidents—or those in between—get the same prompt attention from North Carolina Division first aiders. The first aid crew may not use a basket stretcher to take care of transportation in every case, but they have the training and equipment to do everything necessary.

The pulp mill's medical department includes an emergency room, a doctor's office, a nurse's office, a treatment room, a heat treatment room, a drug supply room, and a shoe room. The man who sees that first aid kits—scattered throughout the plant—are kept filled and in good condition also fits employees with safety shoes.

The rescue squad has available to it, from the medical department, equipment that ranges from resuscitators to block and tackle. The block and tackle helped in getting the accident victim we mentioned from the place he fell to the mill floor.

Usually, a first aid case can be treated on the spot. Lavonne Ragland, the mill nurse, takes care of this. Five Plymouth doctors stand ready always to handle serious cases—and, of course, to give preemployment physical examinations.

The doctors do much more than routine plant medical work. They help Howard Gaylord, safety and personnel director at the mill, plan and conduct first aid training courses.

Gaylord, a big, middle-aged man with a compelling interest in people, has done all he can to build a top-notch group of first aiders. He's convinced the group is the real key to the mill's readiness to deal with emergencies.

bosun's seat. Manning's job is to make sure the injured man is as comfortable as possible, securely lashed to the stretcher, safe. An ambulance waits out of sight on the mill floor.

A RESUSCITATOR always is ready in the pulp mill dispensary, but each mill first aider learns how to administer artificial respiration at the injury scene.

First Aid?

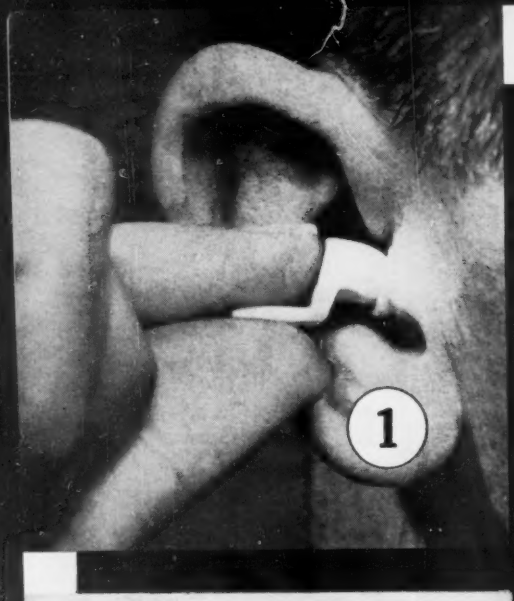
At least one person in every department gets first aid training. This person is responsible for giving first aid for any injury until the nurse or other medical help arrives. When injuries occur, the victims don't have to wait for aid to come from three floors down and a block away, as victims do in many plants.

Gaylord's training program makes competent first aiders of as many as 100 North Carolina Division employees a year. The mill has a number of accredited Red Cross instructors on its payroll. These men help train others, work when necessary as first aiders themselves.

The rescue squad has special training. Most first aiders don't learn how to handle basket stretchers when high-level accidents occur. The squad drills regularly, often with volunteer "victims" who ride the basket, endure splinting and careful manhandling, largely because they, too, want to know what to do when real emergencies arise.

Gaylord doesn't *look* for accidents and injuries. But he knows they do happen, even in plants with safety records as good as that run up by the pulp mill. So his first aiders stand, like Allied troops in West Berlin, ready to resist the first assaults of disaster. • •

MINOR INJURIES, like the one to this man's thumb, are treated at the mill. Five doctors stand by to give whatever major medical care is necessary. The mill has a heat treatment room in addition to the room for examinations and normal care.



NEWS FROM AO

1 New Hear-Guards protect ears . . . reduce harmful noise but let in normal conversation. Soft, sanitary, molded white plastic inserts, available in 3 sizes.

2 New unit first aid kits, with blaze orange lettering you can really see . . . 4 sizes designed for ease of location in an emergency.

3 New AMBU* Rescue Breathing Equipment, a portable resuscitator that can be used anywhere, goes to work in seconds, simple enough for anyone to operate.

New: for daily protection and emergency first aid

Here are three recent AO introductions which are all-important to a complete safety program. New Hear-Guards offer noise attenuation superior to any other type of ear plugs now on the market. Easy to insert and comfortable to wear, three sizes (small, medium and large) in different colored carrying cases insure the right fit for each wearer.

You can't miss the blaze orange letters on the new 10, 16, 24 and 36 unit first aid kits. Easy to locate, the rugged steel cases have built-in wall brackets, carrying handles and snap locks. Rubber gaskets seal out dirt and moisture. Each kit contains the highest quality first aid materials, with individually marked packages and instructions on use.

When artificial respiration is needed, every second counts . . . and AO's new AMBU Rescue Breathing Equipment is ready to go to work *fast*. Portable kit contains foot-operated suction pump, to clear throat and mouth if needed, and easy-to-use resuscitator. Requires no electricity or other connections; the ideal supplement to mouth-to-mouth rescue breathing.

For further information on any item, contact your nearest AO Safety Products Representative, or write for detailed product literature.

*AMBU is a Trade Mark

Your Surest Protection . . . AO SURE-GUARD Products

American Optical
COMPANY

SAFETY PRODUCTS DIVISION • SOUTHBRIDGE, MASSACHUSETTS

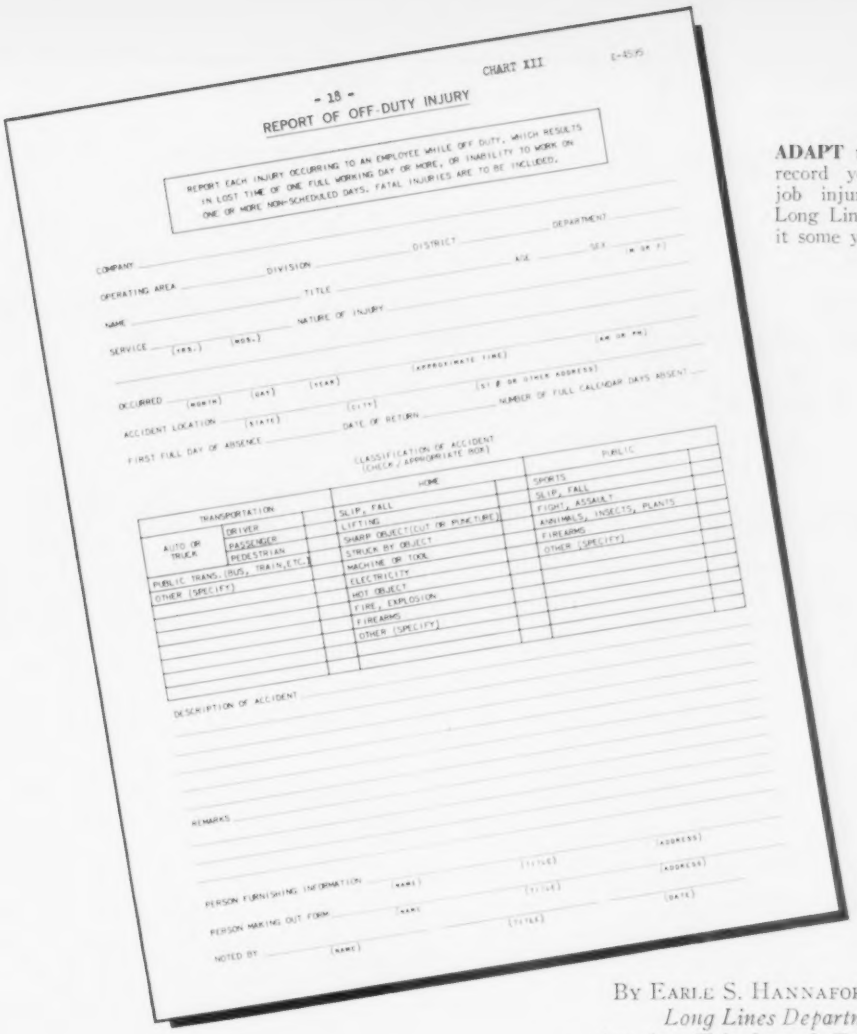


CHART III

- 18 -

REPORT OF OFF-DUTY INJURY

REPORT EACH INJURY OCCURRING TO AN EMPLOYEE WHILE OFF DUTY, WHICH RESULTS IN LOST TIME OF ONE FULL WORKING DAY OR MORE, OR INABILITY TO WORK ON ONE OR MORE NON-SCHEDULED DAYS. FATAL INJURIES ARE TO BE INCLUDED.

COMPANY ____ DIVISION ____ DISTRICT ____ DEPARTMENT ____

OPERATING AREA ____ TITLE ____ AGE ____ SEX (M OR F)

NAME ____ NATURE OF INJURY ____

SERVICE ____ (YRS.) (MOS.)

OCCURRED ____ (MONTH) (DAY) (YEAR) (APPROXIMATE TIME) (AM OR PM)

ACCIDENT LOCATION ____ (STATE) (CITY) (ST # OR OTHER ADDRESS)

FIRST FULL DAY OF ABSENCE ____ DATE OF RETURN ____ NUMBER OF FULL CALENDAR DAYS ABSENT ____

CLASSIFICATION OF ACCIDENT (CHECK APPROPRIATE BOX)

TRANSPORTATION		HOME	PUBLIC
AUTO OR TRUCK	DRIVER	SLIP, FALL	SPORTS
	PASSENGER	LIFTING	SLIP, FALL
	PEDESTRIAN	SHARP OBJECT (CUT OR PUNCTURE)	FIGHT, ASSAULT
PUBLIC TRANS. (BUS, TRAIN, ETC.)		STRUCK BY OBJECT	ANIMALS, INSECTS, PLANTS
OTHER (SPECIFY)		MACHINE OR TOOL	FIREARMS
		ELECTRICITY	OTHER (SPECIFY)
		HOT OBJECT	
		FIRE, EXPLOSION	
		FIREARMS	
		OTHER (SPECIFY)	

DESCRIPTION OF ACCIDENT ____

REMARKS ____

PERSON FURNISHING INFORMATION ____ (NAME) (TITLE) (ADDRESS)

PERSON MAKING OUT FORM ____ (NAME) (TITLE) (ADDRESS)

NOTED BY ____ (NAME) (TITLE) (DATE)

ADAPT this form to record your off-the-job injuries. AT&T Long Lines developed it some years ago.

By Earle S. Hannaford, Ph.D.
Long Lines Department
American Telephone & Telegraph Co.

Off-the-Job Safety Is Your Business, Too

"What I do off the job is my business—not the company's! And that includes off-the-job safety, too!"

That's what most AT&T Long Lines Department employees answered, when we asked them about off-the-job safety 15 years ago.

There's been a considerable shift in employee attitude since. Workers these days are receptive to off-the-job safety guidance. It remains for industry to provide it.

In setting up an off-the-job safety program, don't use the same technique you do for your on-the-job program. AT&T Long Lines learned from experience it doesn't work.

In 1955, we started an off-the-job program for our 15,000 women employees. Because of the similarity in our administrative approach to the off-the-job and on-the-job programs, the employees never truly distinguished one from the other. In responding to the new off-the-job program, they intensified their safety efforts on the job. They still identified safe practice with shop and office, rather than with home and recreation.

On-the-job safety performance improved mightily. Off-the-job safety performance didn't.

It wasn't until 1957, when we changed our slant, that the off-the-job program began to pay.

By then we had learned there is only one E in administering an off-the-job program—education. Enforcement and engineering must be provided volun-

continued on next page

Circle No. 39 on reader service card

continued from page 59

How To Deal With Women

Women tend to take everything personally. Make safety a personal matter to them.

Women should never be criticized directly. The negative won't work with them. Accentuate the positive.

Women are never wrong; so don't expect any open admissions of error from them.

Women talk, talk, talk to release their tensions. They aren't always listening. Their attention is not sustained, thus calling for more repetition.

Women like to parade. They are apt to ask questions even when they understand, in order to draw attention to themselves.

Women excel in routine and detail. Once they get the right emotional attitude toward safety, fixing the right habits and learning safe methods are natural for them.

Ideas from
Earle S. Hannaford, Ph.D.

tarily by workers. The safety department's engineering projects and enforcement powers extend only to the plant gate.

Give your program personal appeal

How can you get someone to be his own off-the-job safety director? First, never consider him alone, but in relation to his family and his friends.

Design a program with strong, personal appeal. At AT&T Long Lines, we experimented. We set up safety discussions for women on subjects like "It's a Woman's World," "Horsepower, Hoopskirts, and Highway Safety," and "A Woman's Way to a Happy Summer." We gave the girls a little homework, a list of things to do around the house that would make their home lives safer. Women usually respond to this approach. Certainly our women did.

Relate safety to personal welfare

Women got together for quarterly safety meetings in groups of from 10 to 16—small enough to insure full participation and active discussion. They organized family get-togethers, enrolled themselves and their families in first aid classes, read and responded to tips in company safety literature.

By relating off-the-job safety to their personal welfare, taking a positive approach rather than saying, "Don't do that," and soft-pedaling criticism, we won the women.

But once you sell women on the idea of safety, they are strong allies. They are attentive to detail, don't tire of it as easily as men. This means they'll take routine precautions and encourage their families to do the same.

Men, of course, also respond to the personal slant, do their best as active participants. They differ from women in that they have a keener sense of social responsibility, are more receptive to pleas calling for the good of the greatest number than they are to personal interest alone.

Records eliminate guesswork

Keep detailed off-the-job accident records. You can pinpoint your trouble spots and document requests for off-the-job safety materials.

By keeping records, AT&T Long Lines knows that two-thirds of our on-the-job injuries might have happened *either* on or off the job. This wouldn't hold true in industry generally, of course. Two-thirds of our Long Lines employees are women, and this influences the accident pattern.

We know that auto accidents, athletics, and falls at home and in public places are our four leading off-the-job injury causes. Usually, more men are injured in auto accidents and sports; more women, in falls.

Our records take the guesswork out of off-the-job accident prevention, give us targets to shoot at as we aim for improvement.

One last tip about administering an off-the-job safety program: Don't be fatherly. It's sure to bring resentment, rather than cooperation. • •

Circle No. 40 on reader service card

KNOW YOUR SYMBOLS

This symbol stands for bus duct

This symbol stands for QUALITY

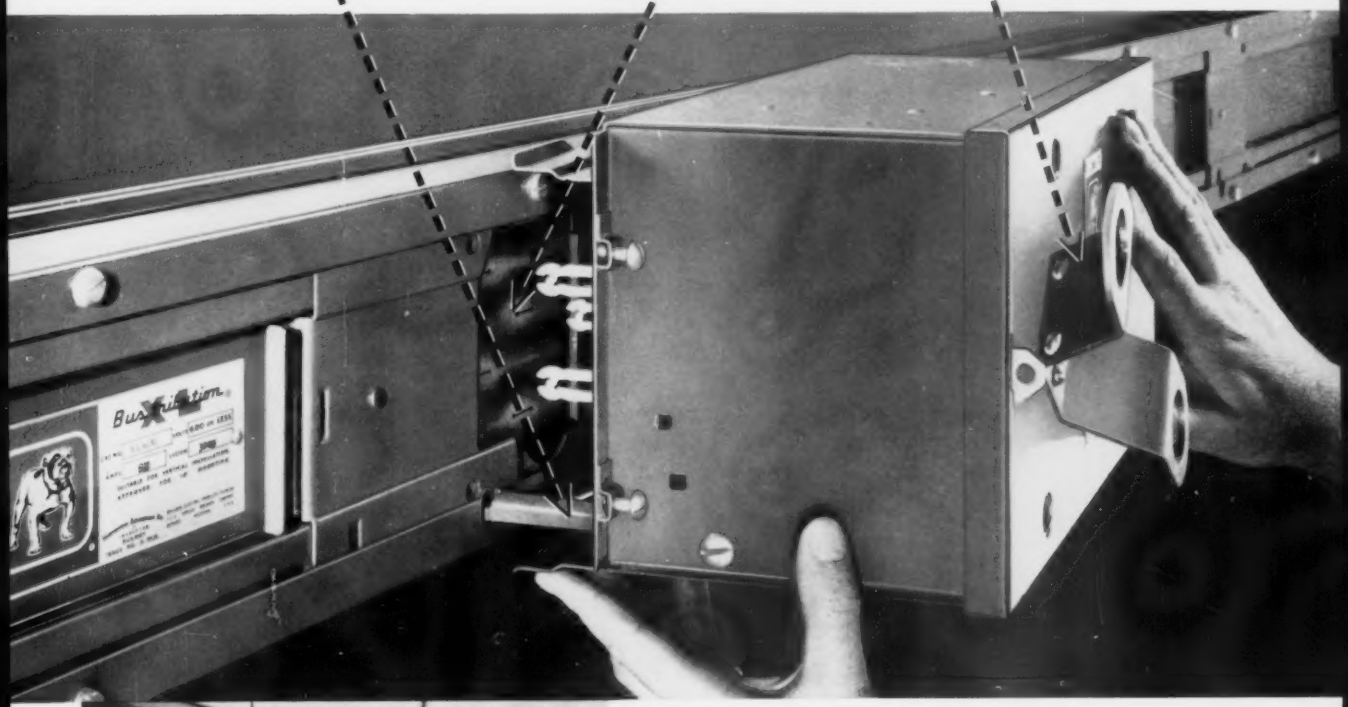
NEW XL BUS DUCT BY BULLDOG

Plugs in "3-way safety" for people, property, production

1 Safer because plug-in safety doors *must* stay closed until XL Safety Plug interlock finger is partially inserted. This finger then prevents door, once opened, from closing on live contacts.

2 Safer because it's the first dead-front plug-in duct. Insulated along full length of each bus bar, even in plug openings, it's the world's safest duct to plug into or work around.

3 Safer because there's no arcing to endanger personnel or equipment. The XL Safety Plug *must* be in the "OFF" position before it can be inserted or before it can be removed.



The XL Bus Duct electrical system was designed by BullDog to provide foolproof safety for your people, property and production! The three features shown above assure maximum protection in utilizing electric power distribution throughout your plant.

Ask the BullDog representative servicing your plant for a safety demonstration.

BullDog Electric Products Division, I-T-E Circuit Breaker Company, Box 177, Detroit 32, Mich. In Canada: 80 Clayson Rd., Toronto, Ont. Export Division: 13 East 40th St., New York 16, N. Y.

I-T-E CIRCUIT BREAKER COMPANY

BULLDOG ELECTRIC PRODUCTS DIVISION

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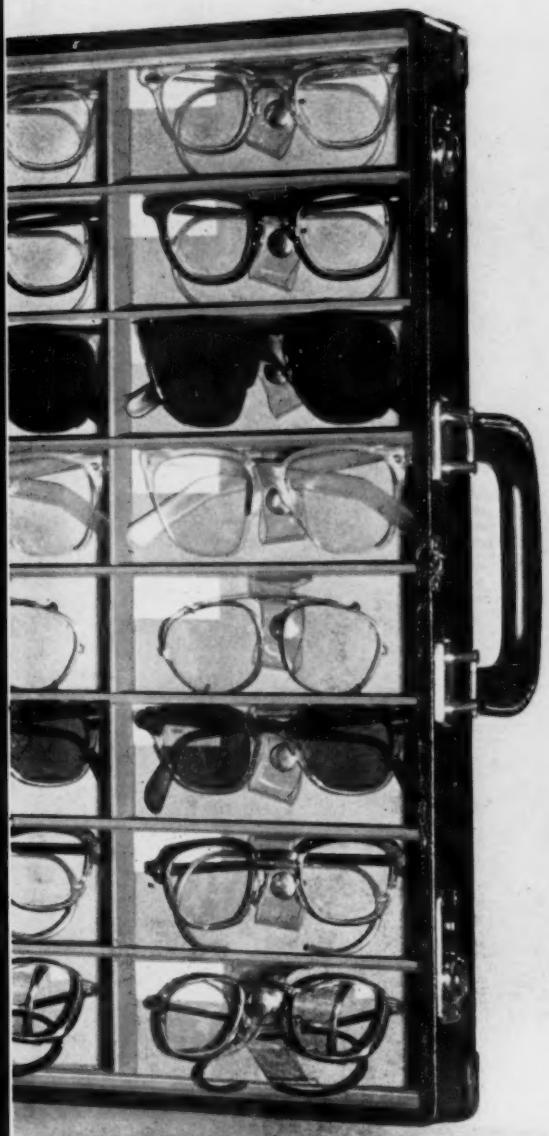


The logic of placing your safety eyewear business with the man from MSA...

AVAILABILITY: NORTH · SOUTH · EAST · WEST · NATIONWIDE

There's an exclusive new line of safety eyewear available from Mine Safety Appliances Company. Name of the brand new line is Sightgard. M-S-A® Sightgard. And multiple cross-country stocking points assure our customers fast personalized service.

In addition, a factory-trained corps of MSA sales engineers serves virtually every area on the safety eyewear map. Their fund of ideas and application solutions can help you put authority in your eye protection program. We would welcome an opportunity to discuss our complete vision protection "package," including Rx service. Soon.

May we send you our new 36-page eye and face protection guide? A request on your company's letterhead will receive our prompt attention.

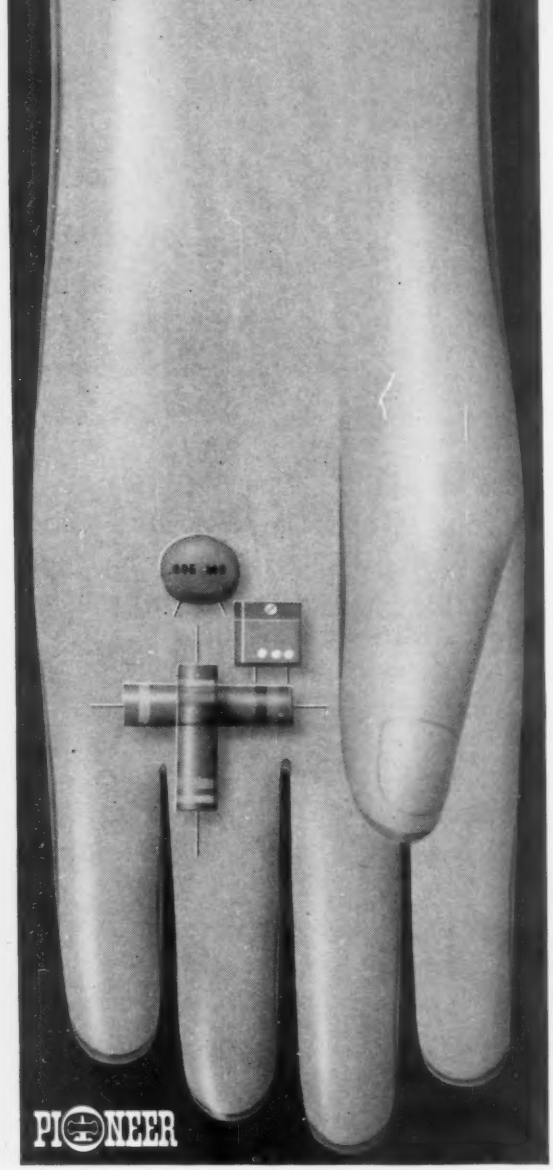
MSA backs up its label with Selection • Quality • Research • Experience

MSA **MINE SAFETY APPLIANCES COMPANY**
Pittsburgh 8, Pennsylvania

9 PIONEER GLOVES PROMOTE

PRODUCT CARE!

To keep work rolling when the product needs protection from handling, use Pioneer Nimble Fingers™ or Sheergrip® Gloves. Styles in neoprene, latex or Pylox™ blend dexterity with durability in the right degree for your job. Selection is easiest from the Pioneer Industrial Glove Wall Chart (all 59 styles). For your free copy, write . . .



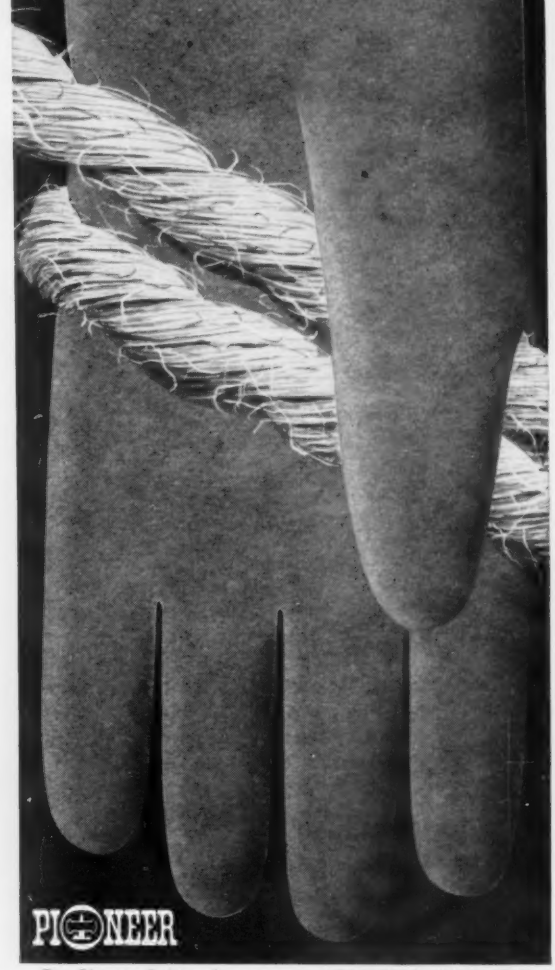
PIONEER

The Pioneer Rubber Company, 238 Tiffin Road, Willard, Ohio

26 PIONEER GLOVES COMBAT

ABRASION!

All 59 Pioneer Glove styles are job-smart; like Neoprene Coated "Pacemakers" and Pylox Coated "Stanflex" . . . built to give you better output with more work-hours per glove and more comfort-hours per worker. There are 26 different Pioneer styles especially for abrasion protection on heavy rough materials-handling jobs. Pioneer has the right glove for the job. You can easily select the right Pioneer glove for your job by sending for the Foolproof Pioneer Glove Selector . . . It's free . . . and easy!



PIONEER

The Pioneer Rubber Company, 238 Tiffin Road, Willard, Ohio

Circle No. 42 on reader service card

Circle No. 41 on reader service card (page 63)

21 PIONEER GLOVES COMBAT

CHEMICALS!

There's a Pioneer glove to protect workers from chemicals, chemical burns or hand dermatitis. Of the 59 Pioneer Glove styles, 21 are designed to give long service in at least 103 basic oils, greases, acids, solvents and other chemicals. This includes all of the long-wearing Milled Neoprene Pioneer styles that bear this recognized Pioneer trademark.

STANZOIL PIONEER

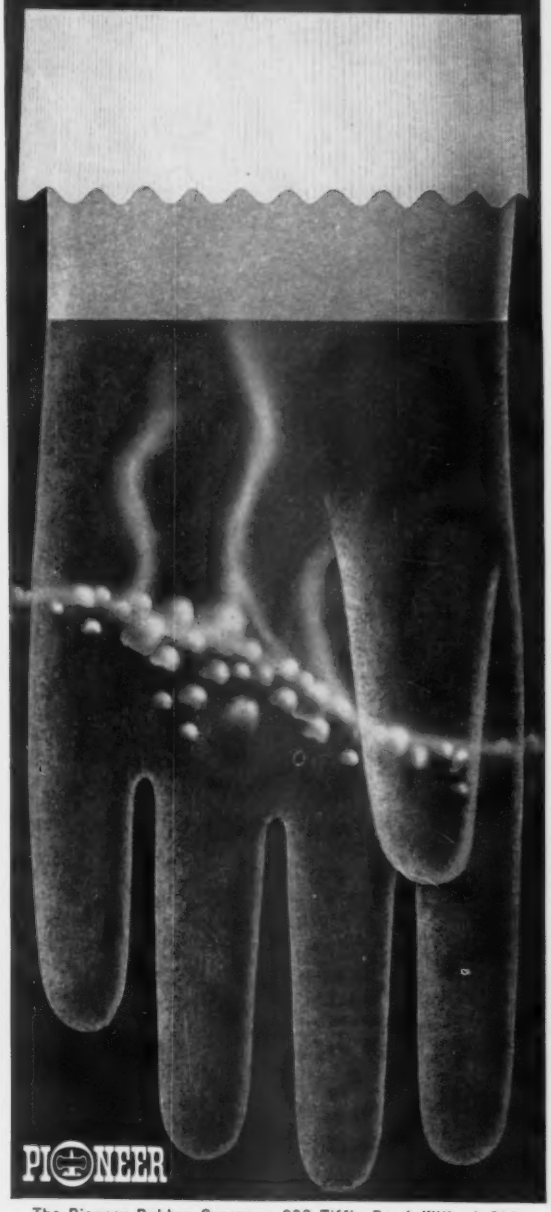
PIONEER

The Pioneer Rubber Company, 238 Tiffin Road, Willard, Ohio

5 PIONEER GLOVES COMBAT FATIGUE,

HEAT, COLD!

When the worker calls for hand comfort, you call for one of the 5 Pioneer lined, liquidproof glove styles. They're lined against temperature extremes and coated with neoprene or Pylox™ against liquid penetration. See these and 54 other glove styles in your free copy of the Pioneer Industrial Glove Catalog. For your free copy write . . .



PIONEER

The Pioneer Rubber Company, 238 Tiffin Road, Willard, Ohio

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SIDE SHIELDS THAT FOLD FLAT

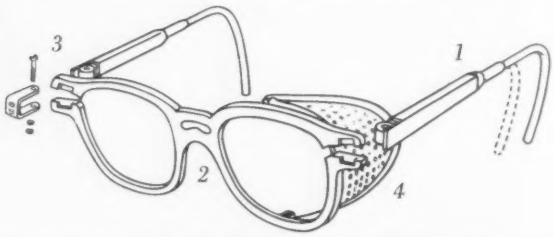
These side shields lay down to fit in your pocket — but stand right up to the job when you wear them!

Soft vinyl side shields fold *flat*, against the frame, then "remember" to open up for full side shield protection. Always handy, never left behind, these glasses go wherever you go.

And comfortable? The soft side shields conform to your face, above, below and beside the eyes. The temples telescope in and out as easily as the frame slips into your pocket. And the universal nose bridge fits 99 out of 100 noses. Light on your head or in your pocket — total weight, including glass or plastic lenses, is less than two ounces.

What about protection? These new Rapido FOLD FLAT side shield frames provide protection against all types of flying particles, dusts, sparks and harmful light rays. *Green* FOLD FLAT side shield frames and lenses provide stand-by protection in welding areas.

For protection, comfort and convenience, specify Watchemoket's Rapido FOLD FLAT side shield frames. Or write for Bulletin #607.



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2. Universal Nose Bridge — forms cradle for comfortable fit on any size or shape nose.
3. Spread-End Frame — makes lens changing quick, simple. Takes less than a minute.
4. Soft Vinyl Side Shields fold flat against frame for carrying ease in your pocket.

New Rapido FOLD FLAT Side Shield Frames

WATCHEMOKET OPTICAL COMPANY, INC.

Eye and Respiratory Protective Equipment for Safety in Industry

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WATCHEMOKET eye SAVERS

RIGHT OFF THE DOCKET

Court decisions in disputed compensation cases

Claimant's testimony not enough

WILLIE SMITH, an acetylene burner for Pullman-Standard Car Manufacturing Co., reported he slipped and fell on the job August 4, 1956. He filed a compensation claim. His employer demanded he prove his claim. The company stated Smith worked until the day he filed his claim and that he refused medical care.

At the hearing, Smith's testimony was the only evidence. No one disputed his statements. The board refused his claim. He appealed to the court.

The court held the mere fact that no one attempts to deny a claimant's statements is not enough to let him collect benefits. The board has every right to reject a claim where it feels the claimant is not being truthful.

Claim disallowed.

Smith v. *Pullman-Standard Car Manufacturing Co.*: Pennsylvania Superior Court, 166 A. 2d 299 (December 14, 1960).

This accident *was* an accident

LIBERTY NATIONAL INSURANCE CO. was a compensation insurance carrier in Montana. To reduce the size of claims, it hired Jim Young as first aid attendant to help workmen who were injured on a dam project.

On February 13, 1953, one of the contractor's employees was electrocuted. Young was summoned and administered artificial respiration for 2 hours. It was 15° below zero, and there was snow on the ground. He wore no gloves and only regular shoes.

Young began to notice difficulty in his left leg and left hand. He filed a claim for compensation.

His employer argued this was not an accident. Young retorted that exposure is an occupational hazard covered by the act.

The court stated an accident under Montana compensation law is not the same as an accident in the ordinary sense. It said Young's injuries were the result of an occupational accident.

Claim allowed.

Young v. *Liberty National Insurance Co.*: Supreme Court of Montana, 357 P. 2d 886 (December 16, 1960).

Right to control establishes employment

PAUL T. KEANEY was employed by Consolidated Builders, Inc., as an assistant crane engineer. The Langenfelder Co. needed the use of a crane after regular working hours. Paul was contacted and readily accepted the opportunity to make overtime pay. While doing this extra work, he was electrocuted when the cable which held the high boom of the crane touched a charged wire.

The question eventually before the court was, Whose servant was Keaney at the time of his death?

Langenfelder maintained it couldn't direct Keaney because he was so much more skilled and adept for the job than anyone else at the company that it would be foolish to try to direct him. Consolidated answered that it loaned Keaney to Langenfelder and therefore he was that company's employee.

The court resolved the controversy by stating it was the *right* to control, not *actual* control, which determined whether the claimant was Langenfelder's employee. Since Langenfelder had the *right* to control him, he was that company's employee.

Keaney's Case: Supreme Judicial Court of Massachusetts, 171 N.E. 2d 154 (December 29, 1960).

No accident—just an occurrence

A WORKMAN'S previous physical condition changed an accident into a noncompensable occurrence in a recent Pennsylvania case.

Aldus Rettew, a truck driver on heavy earth hauling equipment, suffered a sunstroke on July 22, 1955, and died.

The temperature reached 100° that day, and he frequently left his equipment to drink ice water. At about 4 p.m. he collapsed. He had heart trouble.

His widow argued that a heat stroke was an accident, and the claim was compensable.

The court stated that heat stroke ordinarily was an accident, but *only* if the claimant was previously in good health. Since Rettew was not in good health previously, the occurrence was not an accident in his case.

Claim disallowed.

Rettew v. *Graybill*: Pennsylvania Superior Court, 165 A. 2d 424 (November 16, 1960).

Penalty for poor safety training

FRANK BROWN lost his sight when a caustic compound he was mixing in the Hub Dairy plant erupted.

Under the Wisconsin Compensation Act, an injured workman receives 15 percent additional compensation if his employer failed to make him use prescribed safety devices. In this case, Brown should have worn goggles, but no one ever told him so.

Brown contended he was entitled to the extra 15 percent, because he wasn't given the chance to protect himself.

The company argued it didn't have notice of Brown's failure to comply with safety rules. Without this notice, no extra 15 percent compensation was due.

The court agreed with the company's statement, but

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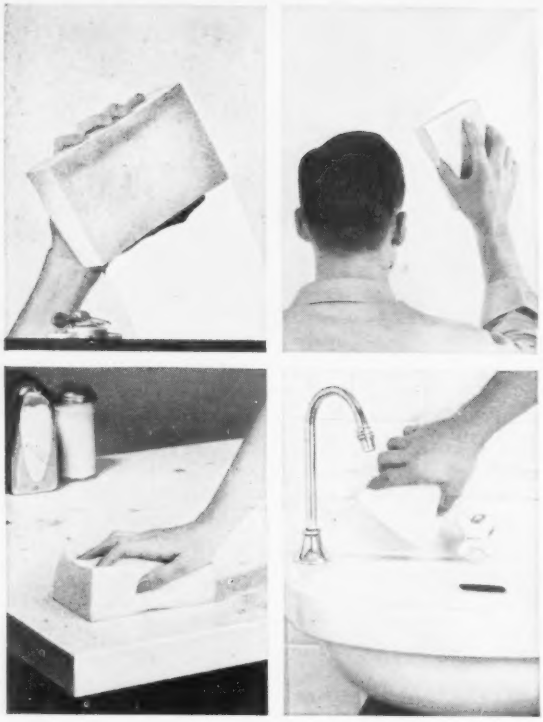

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SOFT for easiest use

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City_____ State_____

Circle No. 44 on reader service card

Right Off the Docket

continued from page 67

added this is *not* the rule when the workman is never instructed to use safety devices. He hasn't been given every opportunity to protect himself.

Penalty allowed.

Hub Dairy Co. v. *Industrial Commission*: Supreme Court of Wisconsin, 106 N.W. 2d 338 (November 29, 1960).

Two-way strain finally got him down

JAMES CARTER, a machine operator for General Motors, was recalled in October 1956, after a 5-month layoff. His regular job was not available, so he was put on the Chevrolet gear and axle assembly line.

The pace was too fast for Carter. If he picked up one assembly at a time, he fell behind, and was reprimanded. Fearing another layoff, he picked up two at a time, but mixed them up—and got another reprimand.

Whatever he did, it seemed, he was called down. Carter suffered an emotional collapse. He argued it resulted from his job. The company argued there was no injury.

The court held that a disorder caused by the job and precipitated by mental strain, even without traumatic injury, was compensable.

Claim allowed.

Carter v. *General Motors Corp.*: Michigan Supreme Court, 106 N.W. 2d 105 (December 1, 1960).

Refusal must be arbitrary

R. C. RHODES, a carpenter, injured his right leg seriously on the job. It was agreed the injury was compensable. However, Rhodes, who was 62, refused to accept surgical treatment to alleviate his condition.

His employer argued a claimant cannot refuse medical treatment and thus artificially create an abnormally long period of disability.

The court ruled that mere refusal to undergo surgical treatment is not a basis to deny recovery. Refusal must be entirely arbitrary before a claim can be denied, and it was not in Rhodes' case.

Claim allowed.

Rhodes v. *Cattle Construction Co.*: Supreme Court of New Mexico, 357 P. 2d 672 (December 13, 1960).

Death drifted through the air

FLOYD J. HINES was a foreman for the Helena (Mont.) Street Department. Three or four days before he became ill, he was climbing in and out of trucks and doing other fatiguing work in the hot sun. He had to be at city shops near the hobo jungle. He was constantly near garbage trucks containing human waste matter. He had his lunch at the city shop, 50 to 100 feet from where garbage trucks were parked, and a block from a sewer outlet.

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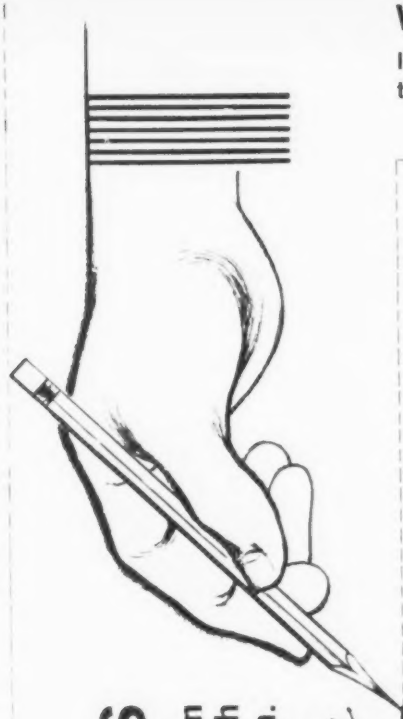

Facts At Your Fingertips

If you want details about products described or advertised in this issue, circle the number on the card that corresponds with the number under each advertisement or product description.

Occupational Hazards

Was this copy correctly addressed?

If not, use this card to give us your complete mailing address plus the old (incorrect) one

OH is now addressed like this:

It should be changed to this:

Products manufactured (or other business carried on) at this address _____

My job title _____

Signature _____

PLEASE PRINT

April 1961. Do not use after July 15, 1961

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2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242	258	274	290	306	322
3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243	259	275	291	307	323
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244	260	276	292	308	324
5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245	261	277	293	309	325
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246	262	278	294	310	326
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247	263	279	295	311	327
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248	264	280	296	312	328
9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249	265	281	297	313	329
10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250	266	282	298	314	330
11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251	267	283	299	315	331
12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252	268	284	300	316	332
13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253	269	285	301	317	333
14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254	270	286	302	318	334
15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255	271	287	303	319	335
16	32	48	64	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320	336

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14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254	270	286	302	318	334
15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255	271	287	303	319	335
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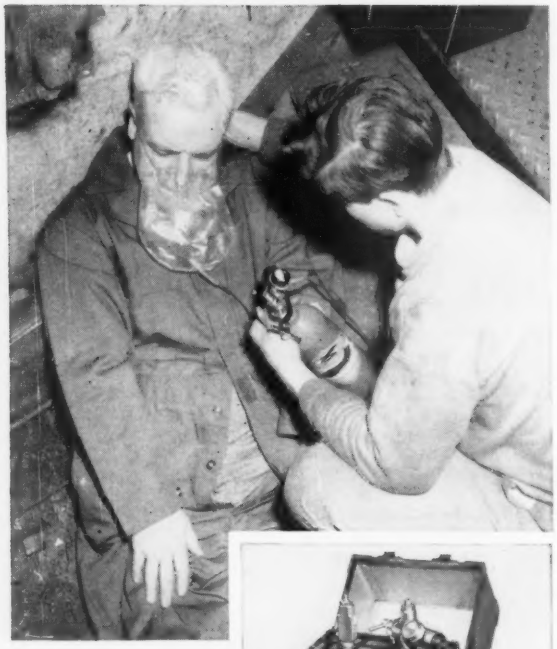

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continued from page 68

On July 22, 1958, he became ill and on July 25 he died. His physician gave the cause of death as polio. A claim for death benefits was filed.

The court stated no one knows exactly when, where, how, or why a person contracts polio. Hines' death, the court concluded, was caused or contributed to by his job.

Claim allowed.

Hines v. *Industrial Accident Board:* Supreme Court of Montana, 358 P. 2d 447 (December 30, 1960).

A day off your sentence is pay

WINIFRED JOHNSON was a prisoner in the Yuma (Ariz.) city jail. He was loaned out to do work for Yuma County Fair, Inc. Yuma County Fair supplied food, lodging, sundries, and cigarettes. The prisoners received no money, but their terms were credited 3 days for each day worked. While working, Johnson fell from a rooftop.

The corporation argued that prisoners are not covered by the Arizona compensation act, and further, Johnson was not paid for his labor.

Johnson countered that he was not on prison property, had no prison supervision, and was working on a nonprison project when he was hurt.

The court reasoned that pay need not be in money. The credit on the jail sentence was pay. The court admitted, however, it would be difficult to fix the amount of the award.

Claim allowed.

Johnson v. *Industrial Commission*: Arizona Supreme Court, 356 P. 2d 1021 (November 16, 1960).

Depression-caused suicide compensable

AN EMPLOYEE who hangs himself at home 4½ months after his job ended may be covered by the compensation act—at least in Pennsylvania.

Stanley Blaszak had a compensable injury. His leg had to be amputated. More than 4 months later, on the day he was to be fitted for his artificial leg, he hanged himself.

His employer contended this was an intentional, self-inflicted injury. It did not occur while Blaszak was working. It was not connected with his work.

Clara Blaszak, the widow, argued her husband was depressed by the loss of his leg. He had psychiatric treatment. His death was clearly and closely related to his injury.

The court ruled that if Blaszak killed himself while in delirium or frenzy, or because of uncontrolled insane impulse, resulting from his injury and loss, the death was compensable.

Claim allowed.

Blaszak v. *Crown Cork & Seal Co.*: Pennsylvania Superior Court, 165 A. 2d 128 (November 16, 1960).

continued on page 74

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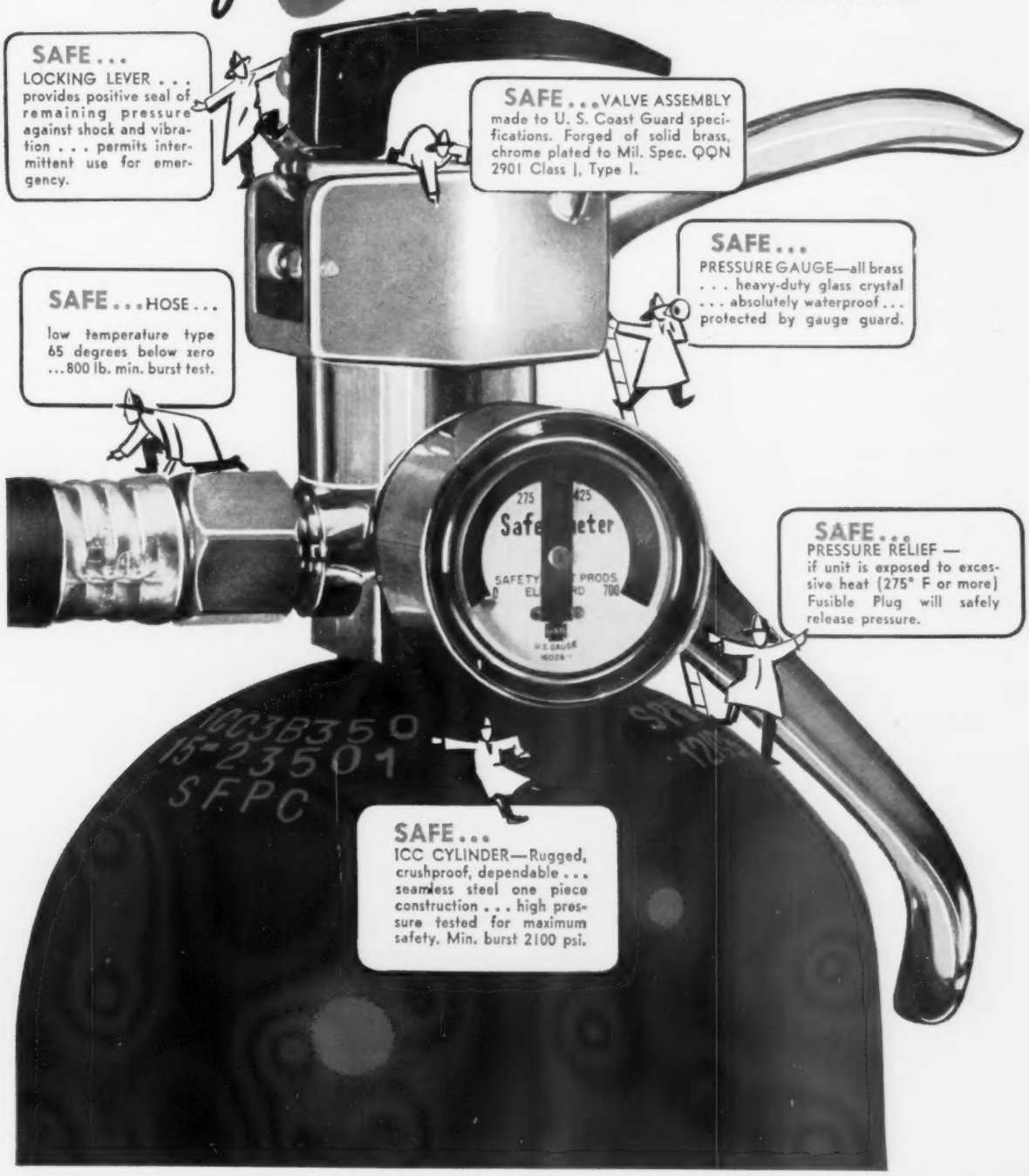

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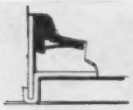

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Spout is "clinched" and soldered to top section of the can to withstand strain of repeated opening and closing.

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Spring operated cap has ball and socket joint assembly to assure uniform, self-adjusting, liquid-tight seal of special leak-resistant gasket.

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Circle No. 48 on on reader service card

continued from page 72

Was he within the scope of his job?

EDWARD J. VOLK was a parts zone supervisor for the International Harvester Co. On April 27, 1956, at 5 p.m., he quit work for the day and registered at a motel near Washington, Iowa. He met Archer, another employee, there, and went to Archer's home in Washington. Several martinis later, he and Archer went to the Epicurean Club, where they had some more drinks and dinner.

After that, they went to another town outside Volk's territory. On the way back, after they passed the Epicurean Club and headed toward the motel, Volk was killed in an automobile accident.

His widow argued that as soon as he passed the point on the road where the club was, he was back within the scope of his employment. His employer argued that the entire night's escapade was a frolic not within the scope of his employment.

The court ruled Volk left the job when he went to Archer's home and had no occasion to return within the scope of his employment until the next morning.

Claim disallowed.

Volk v. *International Harvester Co.:* Supreme Court of Iowa, 106 N.W. 2d 649 (December 13, 1960).

Docket available in book form . . .

The Industrial Publishing Corporation, publisher of OCCUPATIONAL HAZARDS, has compiled 565 cases from "Right Off the Docket" in a highly readable 490-page book entitled, "565 Industrial Compensation Decisions." Price, $12.50. In it, you'll find many answers to workmen's compensation claim problems.

Aggravation produces benefits

WILLIE JAMES COOPER was a sandblaster for Zallea Bros. for 2½ years. As a result of his job, he incurred an aggravation of a preexisting skin condition called Boeck's disease. All parties agreed Boeck's disease is not an occupational disease.

Cooper contended that even though the disease was not occupational, the aggravation was. His employer maintained the compensation act covered only occupational disease.

The court reasoned that it does not follow that merely because a disease is not an occupational disease, there should be no recovery. If the aggravation of the condition is caused by the job, benefits should be allowed.

Claim allowed.

Zallea Bros. v. *Cooper:* Supreme Court of Delaware, 166 AP. 2d 723 (December 22, 1960). • •

COMPENSATION NEWS

changes in the law

A RASH of proposed legislation on workmen's compensation and occupational disease has broken out this year. For example:

A *Colorado* Senate-House labor committee held Denver hearings on a bill to broaden occupational disease coverage. A study committee that met between legislative sessions recommended the measure, which would:

1. Cover all disease that could be traced definitely to working conditions.
2. Eliminate time and money restrictions on medical benefits.
3. Expand the rehabilitation program for injured workers.
4. Cover partial disability due to occupational disease.

At the hearings, Charles Groves, who represented the Colorado Fuel & Iron Corp. (Pueblo), said the bill would be the "most radical workmen's compensation and occupational disease law in the nation." George Cayender, president of the Colorado Labor Council, called the present law "wholly and shamefully inadequate," pushed for quick adoption of the new measure.

Restrictions proposed in Georgia

Representative Frank Twitty dropped a proposal in the *Georgia* legislative hopper that would considerably restrict workmen's compensation payments. Under it, claims would be refused if they stemmed from "heart disease, heart attack, the failure or occlusion of any of the coronary blood vessels, cerebral hemorrhage or thrombosis, epilepsy or diabetic seizure, resulting from or during the performance of the usual work of employment."

In addition, claims would be paid for hernia only if the hernia resulted from some sudden effort or strain on the job. Finally, the Georgia Workmen's Compensation Board would be allowed to show its claim records to the employers (or their insurance companies) of injured workers.

Third party bill in Indiana hopper

House Bill 154, introduced in *Indiana*, would provide that, if an injured worker collects damages from a third party, any compensation benefits he is required to repay his employer under existing law be cut by half the costs and attorney's fees the worker incurred when he sued or arranged settlement with the third party.

Hearings in Boston by a *Massachusetts* legislative committee developed a real hassle. Measures filed by Senators Newland H. Holmes and Ralph C. Mahar would set a time limit of 2 to 5 years for filing compensation claims. Present law sets a 6-month limit, but allows an indefinite extension for any "reasonable excuses."

continued on next page

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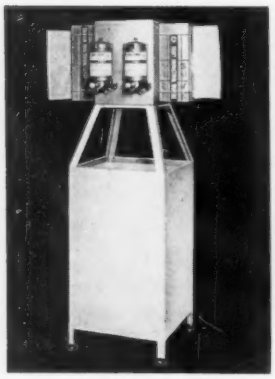

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continued from page 75

The measures got the endorsement of the American Insurance Alliance, the Boston Chamber of Commerce, and the Associated Industries of Massachusetts. They were bitterly opposed by the Massachusetts State Labor Council, which charged insurers were trying to get around existing law.

Michigan Governor Swainson called for consolidating the Workmen's Compensation Department and the Labor Department into a single Department of Industrial Relations. The consolidation would, he felt, "better serve employers and employees."

Benefits on the rise

Without suggesting specific dollar increases, *Minnesota* Governor Anderson pointed out that his State has not raised compensation benefits for 4 years, despite sharp wage jumps.

"Benefits to the widows of workmen killed at their work," he told the legislature, "should be increased from the present maximum of $17,500. The law should be made clear that in all cases injury sustained as a result of exposure to nuclear or atomic rays the statute of limitations does not begin to run until a reasonable time after discovery of the workman's condition."

Representative John L. Rooney got behind a *Missouri* bill that would hike maximum compensation benefits (now $45) by an extra $5 for each dependent child under 18.

At least two different measures to increase benefits under *Montana* compensation law were introduced. One, sponsored by Senators McKeon and McKenna, would raise maximum weekly benefits as high as $70 for temporary total disability, as high at $56 for death or total permanent disability. Maximums now are $42.50 and $33.50.

The second bill, backed by Representatives Blewett and Bradford, proposed a rather complicated formula for grading weekly benefits upward toward the maximum of $47. It would also change the definition of "injury" to mean "a sudden and tangible happening of a traumatic nature producing an immediate or prompt result and occurring from without and such physical condition as results therefrom."

Oregon may move for self-insurance

Oregon Governor Hatfield told the legislature he would accept a bill to allow employers and private insurance companies to insure workmen under the compensation law. Oregon now has an exclusive State fund. The Governor specifically recommended that self-insurance be permitted.

Another Oregon proposal would set benefits at 50 percent of average wages, with a minimum of $130 a month for permanent total disability. Dollar limits would be eliminated. This bill, like two others, was backed by labor. The other two bills would:

1. Raise benefits for permanent partial disability from $46.50 to $50 for a degree. Oregon law provides 192 degrees of disability.

2. Broaden the occupational disease law as it affects firemen, to include lung infection or a heart attack.

A *Pennsylvania* proposal (S. 60 and S. 61) would eliminate time and money limits for medical and surgical services furnished workers under the compensation and occupational disease laws. Another bill (H. 14) would have the State fund insure employers against employer's liability and would let the Workmen's Compensation Board issue extra medical coverage to an employer if the board wished to do so. Still a third bill (H. 18) would extend the 1-year limit on State fund compensation insurance policies to 3 years.

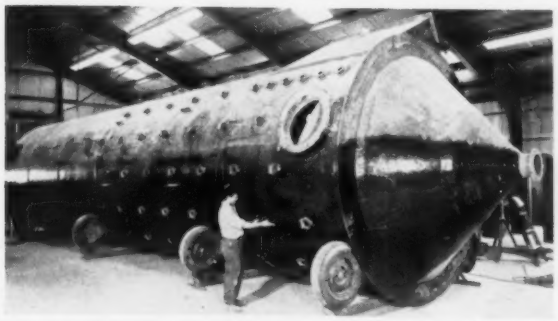
Rhode Island resurrects noise issue

Last year, *Rhode Island* killed by inaction a proposal to make deafness due to a noisy work environment compensable. This year, Representative Hugo L. Ricci introduced a similar measure.

South Carolina Governor Hollings asked for thorough revision of the present method of handling compensation claim appeals. The Governor commented that "the practice of an individual in a judicial or quasi-judicial position deciding a case initially and then sitting as part of an appellate court or review board is a poor one." He asked that an appellate board be set up to hear appeals from the findings of a commissioner.

Vermont Senator James Oakes set out a bill that would extend the time limit for burial expense benefits to 5 years. At present, if a Vermont worker dies more than 2 years after being hurt, burial expenses are not payable. The proposed measure would require weekly compensation benefits for death equal to the dead man's average weekly wage, within a total limit of $11,800.

Governor Barron of *West Virginia* asked the legislature to "consider liberalizing certain provisions of the [compensation] law, which, due to inflation and other factors, are not adequate." He called for "reasonable increases in weekly benefits, medical expense coverage, and payments to dependent widows," as well as for technical changes in the law governing benefits for silicosis. • •



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Course No One Can Afford To Fail

continued from page 76

Don't be chained to the text. Elaborate on it. Be friendly and informal. Encourage questions. Answer them as though they are intelligent questions, whether they are or not.

Wind up the interview with a brief talk on safety's importance in the eyes of the company and the dividends it pays the worker in steady earnings and a life unmarred by pain and regret.

One safety director we know who is specially skilled as a teacher emphasizes to the new man that he is now working in a safe plant where management takes pride in its accident prevention record. He points out that though the plant employs 2,000 people a lost-time accident sticks out like a sore thumb, for the plant seldom has more than 6 to 12 lost-time accidents per year. One man's carelessness, then, can really hurt the company's safety record.

"Your security, health, and welfare," this director tells the new man, "depend on caution. Follow safety rules to the letter. Remember, if you're hurt on the job and off 2 weeks, you'll get compensation benefits equal to only one-half a week's pay."

Ideas for safety meetings

You often address foremen and safety committeemen in groups. Here are some general rules to guide you in conducting group meetings:

► Prepare thoroughly the subjects to be covered. This will take research and rehearsal on your part.

► Don't try to crowd too much material into one meeting. You overtax your audience if you establish a racehorse atmosphere.

► Be courteous and patient. Encourage questions, suggestions, discussion. Above all, don't talk down to your audience. This is vital, especially with foremen. They can be plenty sensitive when someone seems to suggest they don't know their own departments' problems.

► Vary your presentation with visual aids. Use placards, charts, pamphlets, to underscore key points. Show a safety film once in awhile. This combines a change of pace with dramatic visualization, which an audience often remembers much better than lectures or discussions.

► Hold the meeting reins gently but firmly. Don't allow the discussion to get off on tangents. It's the surest way to waste an hour.

Keep people informed

Through memos and bulletins, keep foremen informed about new safety developments that affect their departments. Go over your written material until it's brisk, clear, as brief as possible. Remember you're talking to foremen, not drafting Federal legislation.

Many safety directors provide foremen material for 5-minute safety talks. The director stays in the back-

continued on page 80

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Choose from Defense Apparel's large selection of lint-free and detailed protective clothing. Engineered of special fabrics to give that extra service to those who require sure protection from contaminates and radio active materials. Strong and light weight . . . provide lasting comfort and economy as well.

1. Plastic Outer 2 Piece Suit of Krene Vinyl
2. Durable Plastic Shoe Covers with elastic tops and non-slip soles
3. Window Hood of Optically Clear Plastic with Full Cut Shoulder Drape
4. Inner Garment Lint-Free Coverall — Meets Mil. Spec.

• Lab Coats • Lint-Free Caps and Hoods • Air Suits (light and heavy gauge) • Lint-Free Gloves • Lint-Free Wipers • Polython Bags • Disposable Dry Boxes and Titanium Welding Chamber

DEFENSE APPAREL
First in The Field to Meet the Exacting Specifications of the Atomic Energy Commission.

Whatever Your Needs in Protective Clothing — Consult Defense Apparel. Our technical staff is at your service. Protective Clothing Also Made to Your Specifications.

DEFENSE APPAREL
Dept. OH-4, ALLYN ST.
HARTFORD, CONN.

Circle No. 53 on reader service card

Sounding Board

News of Interest in the Field of Noise Control

Your Hearing Conservation Program Begins With an Accurate Analysis of Noise-Exposure

Because prolonged exposure to harmful noises cause early-induced hearing loss which is not easily discernible, the accurate analysis of these noises is a vital part of a proper Hearing Conservation Program.

Accurate Sound Analyzer Necessary

The measurement of noise and its analysis, (the breakdown of noise into its various frequencies), calls for precision instruments and techniques. To make the function of noise measurement and analysis easy for non-technicians, the Rudmose Instrument Co. has designed a new combination sound level meter and analyzer which furnishes accurate sound level measurements and octave analysis with a simplicity of operation making it virtually impossible to obtain incorrect readings.

Also Calibrates Audiometers

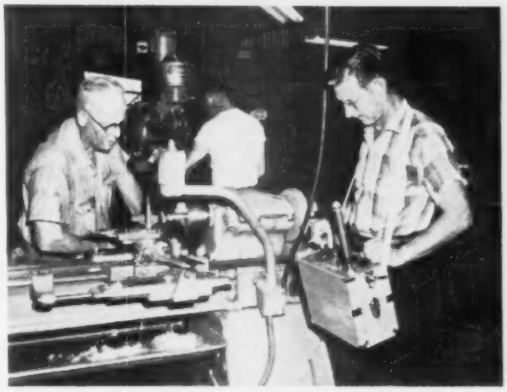
As hearing tests are the most important part of a hearing conservation program, the audiometer output must be checked routinely for accuracy of calibration. The Rudmose R.A. #100 Sound Analyzer is equipped with an earphone coupler for checking the audiometer's accuracy of calibration. Circle 65.

Audiometers and Audiometric Rooms, Too

The Rudmose R.A. #100 Sound Analyzer is an addition to the equipment distributed by Industrial Acoustics Company, Inc., for instituting a complete and effective Hearing Conservation Program. The Rudmose Automatic Audiometer is available for rapid and accurate hearing tests; and IAC Audiometric Examination Rooms for providing a proper environment for obtaining accurate audiograms. Circle 66.

Control of Noise a Factor

Another important part of any Hearing Conservation Program is the control of noise at its source. This is accomplished by the use of IAC complete or partial noisy machinery enclosures or by protecting personnel with IAC "Quiet Rooms" to shield workers from damaging noise. Circle 67.



Measuring noise level of a machine with the new Rudmose #100 Sound Analyzer. The lightweight, completely transistorized unit is convenient for carrying.

R.A. #100 Sound Analyzer being used to check audiometer. The earphone coupler transmits audiometer signals into microphone for checking.

"STEEL CLAD" TELEPHONE BOOTHS KEEP NOISE OUT-CONVERSATION IN

Wall Model "NOISHIELD" Telephone Booth installed in a machine shop.

IAC "NOISHIELD" telephone booths are engineered for high acoustic efficiency to provide ease of conversation in noisy locations or privacy of conversation where desired.

Featuring rugged steel-clad construction, attractive finishes and low cost, these booths are ideal for factories, public buildings, terminals, schools, laboratories, restaurants, stores and for all noisy locations. IAC "NOISHIELD" booths are also available in floor models. Circle 75A.

Using the Rudmose Automatic Audiometer, subject conducts his own hearing test seated within an IAC Audiometric Examination Room.

An IAC machinery enclosure controls noise levels by isolating noisy equipment.

Other literature available:

"Noise-Lock" Doors — Circle 68.
"Quiet" Rooms for Supervisory Personnel — Circle 69.
Control Rooms — Circle 70.
Silencers for Air Handling Systems — Circle 71.
High Intensity Noise Chambers — Circle 72.
"MINI-SIZED" Test Chambers — Circle 73.
Mufflers & Industrial Silencers — Circle 74.
Sound Isolation Rooms — Circle 75.

Industrial Dept. OH-361

INDUSTRIAL ACOUSTICS COMPANY, INC.

341 Jackson Avenue New York 54, N.Y.
Certain Territories CYpress 2-0180
Available for Qualified Representatives

Please send data on: 65 66 67 68 69 70 71 72 73 74 75 75A

Name _____ Title _____
Company _____
Address _____
City _____ Zone ____ State _____

Circle No. 54 on reader service card

Course No One Can Afford To Fail

continued from page 78

ground. He provides the study outline to keep subject matter balanced and applicable to department problems. He gets a written report on the discussion. This method capitalizes on the foreman's intimate knowledge of his workers, which enables him to get through to them more easily than an outsider can.

Use your communications experts

Plantwide educational drives require promotional know-how. Planning your own campaign in consultation with your house organ editor or public relations man will help considerably.

You may want to arrange a special section in an issue of your plant newspaper to deal with housekeeping, vacation safety, fire prevention, or another specific aspect of your accident prevention program. Bulletin board posters and streamers strung around the plant can buttress the newspaper story.

You may shoot for active participation and intensified employee interest in safety by using a contest. This takes an intelligent publicity campaign if it is to produce good results. More important, it takes a contest that's fun.

Contests usually pit comparable departments or plants against each other, are based on accident-free performance. They're often founded on some sport —baseball, football, bowling, with time intervals measured in innings, quarters, or frames and score kept as runs, touchdowns, strikes and spares.

Distribute safety tips to stimulate contestants. Many plants find that pretty girls or photos of pretty girls holding safety placards do wonders for contest participation.

Contests are helps, not ends

Ordinarily, contests begin with a teaser campaign. Employees learn through streamers, posters, bulletins, and plant newspaper articles that something special is coming. You just hint at what it is. Once the workers' curiosity is aroused, and they begin pestering you for details, don't stall them off too long. Have rules published, and get the contest underway.

Don't let contests run too long. Several weeks is usually right. Don't run contests too often. It detracts from their appeal as something special. Don't repeat them, except by popular demand. Vary their form. Otherwise workers will lose interest.

Most important, use contests as a supplement to your safety education program, not as its hub. • •

Test for gas . . .

In Florida recently, a sewer construction worker removed a test plug from a manhole and was overcome by gas. You can prevent accidents like this by requiring men to work in pairs, and by testing for gas leakage before manholes are entered or plugs removed.

SEECLOTH

VISIT US AT BOOTH NO. 197 CHICAGO SHOW

THE LARGEST COMPANIES IN THE COUNTRY GIVE THEIR WORKERS SEECLOTH FOR FOGPROOFING GOGGLES & WINDSHIELDS. WHY?

BECAUSE—

1. It is the most convenient and economical method known for fogproofing goggles or windshields. The cloth lasts for as long as a year if kept clean and dry.
2. It saves the worker's time. He doesn't have to go anywhere to do anything about his goggles —he has the means of fogproofing them right in his pocket.
3. If he fogproofs his goggles in the morning and after lunch, while his hands are clean, by wiping them with SEECLOTH, the goggles stay clear *all day long* and the cloth stays clean.
4. In truck fleets, and bus fleets the larger pieces of SEECLOTH fogproof the windshields and prevent accidents. One fogproofing a week is usually sufficient to keep the windshield clear.

5. SEECLOTH is made in a variety of sizes, namely, 3"x8" strips and also 8"x9", 12"x18" and 16"x18" pieces individually packaged in polyethylene envelopes.

HYGIENE RESEARCH Inc.

684 BROADWAY, NEW YORK, N. Y.

Samples on request. Write Dept. O-361

Circle No. 55 on reader service card

DON'T GET BURNED! GET SAFETY CLOTHING MADE OF

SAFETEX®

FIRE RETARDED FABRIC!

Fight fire with a **real** fire-fighter—Safetex! It provides maximum clothing-safety protection and cotton comfort against fire and burns... protects workers and plant reputation! Numerous launderings do not affect the superior flame resistance of Safetex... nor do dry-cleanings. There is no afterglow. Next time you order safety clothing made with fabrics requiring a flame retardent finish, specify Safetex to your garment supplier... or call Wamsutta/Pacific Industrial Fabrics Division for full information!

WAMSUTTA®/PACIFIC

INDUSTRIAL FABRICS, 1430 BROADWAY, NEW YORK 18, N. Y.

Circle No. 56 on reader service card

CREATIVE RESEARCH • QUALITY PRODUCTS • PROFESSIONAL SERVICE

SURE STEP TO SAFETY...ZORB-ALL

ZORB-ALL® is Wyandotte's rugged, all-purpose floor absorbent that provides safe, sure footings on floors . . . for both workers and vehicles. It eliminates slipperiness due to any liquid. Keeps floors safe longer because its angular particles won't break down into mud or dust. Have your Wyandotte representative show you how safe ZORB-ALL can make your floors.

Wyandotte Chemicals

J. B. FORD DIVISION

WYANDOTTE, MICHIGAN • LOS NIETOS, CALIFORNIA • ATLANTA, GEORGIA

Circle No. 33 on reader service card

continued from page 49

Tame Magnesium Dust

MAGNESIUM forgings had to be airblasted. The manufacturer, Wyman-Gordon Co., Worcester, Mass., needed a wet collector to guard against the high fire and explosion hazard of magnesium dust.

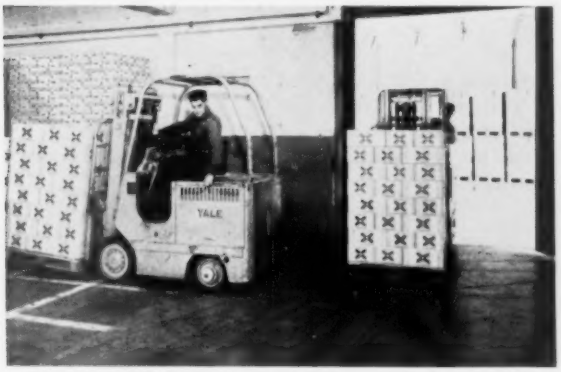
A dust collection equipment manufacturer came to the rescue with a special airblast table. The magnesium dust and abrasive that arise from the forging as it is cleaned are drawn into a settling chamber, where much of the abrasive remains. Magnesium dust and fine abrasive enter the collectors; dust-laden air filters through tubes and mixes with small particles of water. Air, dust, and water are thrust through the tubes and form sludge deposits. Sludge washes down the collector tank, settles at the bottom.

Next month . . .

We'll tell you all about "The High Cost of Eye Injuries." Watch for this report.

Trucks Wear Bells

NOISY in-plant trucks are a nuisance, but quiet ones can breed hazards. At Lucky Lager Brewery, San Francisco, electric fork trucks used to prowl around the shipping room, their moderate hum lost in the clatter of machinery. The safe flow of this heavy truck traffic depended almost entirely on the drivers' sounding their horns every time they approached a danger point.



BELL-EQUIPPED fork trucks remove much of the hazard from plant traffic at Lucky Lager Brewery.

Collision hazards took a nosedive when the company mounted an 8-inch bell on the left rear wheel of each truck. The bell rings the moment the truck is in motion. Plant pedestrians scurry. A truck operator distinguishes between his own bell and the other fellow's by a difference in tone.

continued on next page

HILD

LISTED UNDER REEXAMINATION SERVICE UL OF UNDERWRITERS' LABORATORIES, INC.

EXPLOSION PROOF CLEANING EQUIPMENT

MODEL 330

THE ONLY COMPLETE LINE OF EXPLOSION PROOF VACUUM CLEANERS FOR SAFETY CLEANING

MODEL 355

Every size from 6 to 55 gallon capacity for all types of wet and dry pickup in hazardous areas. Excellent for cleaning chemical and petroleum storage tanks, grain mills, gunpowder plants, etc. Every machine UL Listed for Class 1, Group D and Class 2, Group G location.

MODEL 315

THE HILD FLOOR MACHINE COMPANY ALSO MANUFACTURES A COMPLETE LINE OF INDUSTRIAL VACUUM CLEANERS AND FLOOR MACHINES FOR EVERY CLEANING OPERATION.

MODEL 306

THE FIRST UL LISTED EXPLOSION PROOF FLOOR MACHINE

MODEL CX5

Versatile polishing and scrubbing machine for gas pumping stations, food manufacturers, candy plants and other hazardous areas. Complete Unit UL Listed.

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Gentlemen:

☐ Send more information on explosion proof cleaning equipment.
☐ Send more information on the complete Hild line.

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Firm_____
Address_____
City_____ Zone____ State_____

Circle No. 58 on reader service card

Unique New Suspension Makes APEX Safety Hats & Caps

Exclusive Most Efficient Design Cuts Suspension Weight 30%

Most efficient suspension ever designed . . . offers these outstanding advantages.

- Simplified two-part design provides broader and better distribution of impact, prevents hat wobble, offers three-position adjustment for crown height and wearing angle.
- New formula polyethylene construction . . . resists cracking from long exposure to ultra-violet light.
- Insures minimum 1¼" safety margin between head and shell.
- Has greater range of adjustment to fit head sizes from 6½ to 8.
- In assembly easily snaps in and out of T-slots for quick replacement and fits any APEX hat and cap now in service.
- Built-in safety construction eliminates metal parts, buttons and tie string.
- Easy cleaning — greater hygiene.

There's an APEX safety hat or cap for every application:

FIBREGLASS.... in eight colors
ALUMINUM..... in five colors
ELECTRICAL... in safety yellow
MINERS ..... in safety yellow

Write today for detailed literature.

SAFETY DEPARTMENT

Boyer-Campbell

Division of The WHITE Sewing Machine Corporation

801 W. BALTIMORE AVE. • DETROIT 2, MICHIGAN

Circle No. 59 on reader service card

continued from page 83

Coffee Machine Talks

AT ONE TIME or another, you've probably heard the one about the talking dog, but have you heard about the talking coffee machine?

The Maytag Co. (Newton, Iowa) has one.

MAYTAG WORKERS get safety hints with their coffee.

After the vending machine fills your coffee cup, you raise the door to remove your cup. That triggers an electric eye, which sets off a tape recording of a safety message. The arrow in the picture points to the hidden speaker which transmits the message.

The gimmick strengthened Maytag's safety education program, but there's no truth to the rumor that it made teetotalers of several employees the first week it was installed.

Contractors' Rule Book

CONTRACTORS assigned to construction and renovation projects on plant grounds have added to many a safety director's crop of gray hair. Invariably, problems stem from contractors' ignorance of company safety regulations.

Chemstrand Corp. (Decatur, Ala.) solved this problem by compiling a booklet entitled "Safety Regulations for Contractors." It spells out ground rules for safety, fire prevention, housekeeping, and plant security, and focuses on items of special interest to construction workers. It includes a great deal of information on railroad clearances in plant yards, on Chemstrand rules for making and shoring excavations, and on control of vehicle traffic. • •

Sudden Injury

United Press International photo

The wife of a workman hurt in an aircraft hangar blast bends over her husband in the hospital. Five died, three were critically hurt, in the explosion, touched off by a spark while a plane was being painted. Another worker's comment comes to mind: "Why do I follow safety rules? My wife, me, and my three kids."

Reprints of "Sudden Injury" poster pages (without these price lines) may be ordered: 1-19 copies, 15 cents each; 20-49 copies, 12 cents each; 50-99 copies, 10 cents each; 100-499 copies, 7 cents each; 500 or more 5 cents each. Please send payment with order.

Previewing the Spring Shows

IAPA Annual Conference

Dates: April 10-11
Place: Royal York Hotel, Toronto, Ontario
Sponsor: Industrial Accident Prevention Associations
90 Harbour Street, Toronto 1, Ontario

REGISTRATION for this, the largest safety conference and exhibit in Canada, begins at the Royal York at 8:30 a.m., Monday, April 10. There is no charge except for luncheon and banquet tickets. The Industrial Accident Prevention Associations represents all classes of Ontario industry, gets its financial support from the Province's Workmen's Compensation Board.

Monday conference sessions will emphasize safety training methods. H. M. Douglas (Imperial Oil, Ltd., Toronto) and A. B. Henderson (General Motors Diesel, Ltd., London, Ontario) will tell how their companies interest workers in safety. IAPA specialists will preside over an afternoon open forum called "Training for Safety."

Tuesday morning general sessions will center on medical programs and first aid. Most of these sessions will be led by physicians. Nine classes of industry will hold luncheon meetings, with following specialized programs. Afternoon general meetings will touch on electrical and explosion hazards, Ontario workmen's compensation, and "Safety Programs That Work"—the last, a discussion by three speakers of specific successful plant programs.

Probable Exhibitors As of Press Time

American Biltrite Rubber Co. (Canada), Ltd.
American Optical Co. Canada, Ltd.
Autorex (Canada), Ltd.
Barry Manufacturing Co.
Bausch & Lomb Optical Co., Ltd.
Bell Electricord & Safety, Ltd.
Robert Bosch (Canada), Ltd.
E. D. Bullard Co.
Butler Optical Co., Ltd.
Canadian Germicide Co., Ltd.
Canadian Patent Scaffolding Co., Ltd.
Canadian Ribbon Tape Co., Ltd.
Collins Safety Shoes, Ltd.
Commonwealth Advertising Co., Ltd.
Continental Professional Devices, Ltd.
Delhi Die & Manufacturing Co., Ltd.
Dyer & Miller Brothers, Ltd.
Edmont Manufacturing Co. of Canada, Ltd.
Fibre-Metal (Canada), Ltd.
Fyr-Fyter Co. of Canada, Ltd.
Globe Industries, Inc.
Gro-Cord Rubber Co. of Canada, Ltd.
Howe Services, Inc.
Industrial Poster Co.
Industrial Safeguards Co.,
a division of Harrow Grove Co.
Industrial Safety Equipment Co., Ltd.
Ingram & Bell, Ltd.
Jeltek, Ltd.
LaFrance Fire Engine & Foamite, Ltd.
Levitt-Safety, Ltd.
Columbus McKinnon, Ltd.
Mine Safety Appliances Co. of Canada, Ltd.
Newco Manufacturing Co., Inc.
James North Canada Co., Ltd.
Ontario Department of Health
Ontario Society of Safety Engineering
Palmer-McLellan United, Ltd.
Parmelee, Ltd.
Protectoseal Co.
Pyrene Manufacturing Co. of Canada, Ltd.
Reliable Footwear Co., Ltd.
D. W. Rycroft & Associates
Safety Supply Co.
St. John Ambulance
Sarole, Inc.
Simcoe Mitt & Glove Co., Ltd.
Stanley Chemicals, Ltd.
Travelon Oil Co.
Union Industrial Equipment Co.
Union Wire Rope Corp.
Wayne Safety Appliances, Ltd.
A. R. Williams Machinery Co., Ltd.
G. H. Wood & Co., Ltd.
Daniel Woodhead Co.

31st Annual New York Safety Convention & Exposition

Dates: April 10-14
Place: Hotel Statler-Hilton, New York City
Sponsor: Greater New York Safety Council
60 East 42d Street, New York 17, N. Y.

"WOULD YOU PANIC?" Go to the Greater New York Safety Convention this year and find out. The Red Cross will put on a skit that includes demonstration of first aid for common injuries. That's Monday afternoon, April 10.

Naturally, the convention will have its regular section meetings. They start Tuesday, run through Thursday. Try the session on "Diagnosis: Catastrophic Cost," conducted April 11 by William T. Robinson, assistant director, Hospital Association of New York State. Or attend the Wednesday demonstration of machine guarding staged by Gilbert C. Lewis and Herbert C. Johnson of Travelers Insurance Co. Take in the panel discussion of "The Purchasing Agent's Part in the Company Safety Program." That's on Wednesday, too. There's a lot of variety on the program—every day.

Convention meetings will run Monday through Friday. Exhibitors' booths, however, will be open Tuesday through Thursday only. A fee of $1 to $3 will be assessed when you register. An attendance of 8,000 is expected.

continued on page 89

EYE WASHING FOUNTAIN

SAVE EYES!

Leading industrial doctors advise immediate washing with plenty of running water as the best first aid treatment for any chemical in the eyes. Records prove that washing with water for ten minutes or more, close to the accident, is necessary to reduce or eliminate eye damage.

Forehead operation leaves hands free to open eyelids so water can be directed wherever chemicals might be lodged. Sanitary white baked enamel bowl is resistant to most fumes.

Over 500 industrial plant installations have been made to date.

Write For Details.

VALVE
Chain Operated
Quick Action
Self-Closing

NEW EMERGENCY SHOWER

Deluge of Water 30 to 40 G.P.M.

The B & A Shower is the quickest and most satisfactory way to saturate a worker with gallons of water the instant an accident occurs, to prevent a disfiguring burn—even a fatality.

Special shower head, no holes to clog—can be used where unfiltered water prevails.

Write For Details.

NEW LOW COST B & A SAF-T-BAGS

are widely used for the safe handling of glass bottles containing harmful chemicals; also the storage and recovery of expensive serums, biologicals, and other costly products.

Painful cuts, disfiguring burns, loss of eyesight, or even a fatality, do result from corrosive liquid splash and flying glass when unprotected bottles shatter.

5 PINT
1 GALLON
5 GALLON

Write For Details.

BENSON & ASSOCIATES, INC.

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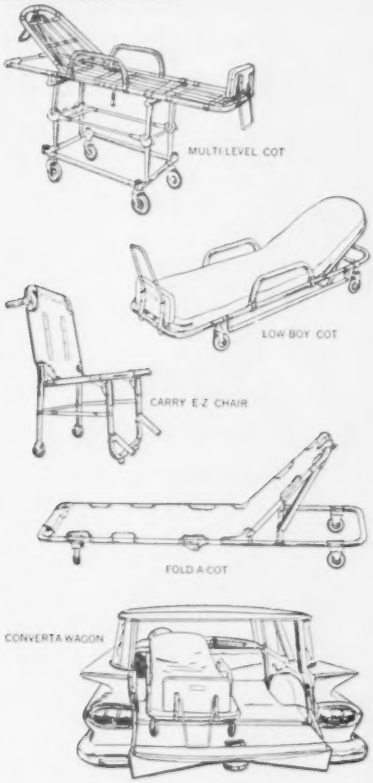
since 1898 Bomgardner Mfg. Co. has been the world's leading producer of quality cots and stretchers



THE Bomgardner MANUFACTURING CO.
P.O. BOX 567 EDGEWATER BRANCH
CLEVELAND 7, OHIO

COMPLETE SHOE STORE IN YOUR PLANT!

Superior's Mobile Safety Shoe Store on Wheels

SAVES YOU TIME, MONEY, AND MAN-HOURS

- **WHY** order shoes?
- **WHY** stock shoes?
- **WHY** tie up capital?
- **WHY** spend time fitting shoes?
- **WHY** use valuable plant space?

Interior view of one of our modern mobile shoe stores.

Superior provides skilled fitting—complete style and size range—right in your plant.

Currently serving over 400 plants in Ohio and Pennsylvania plants employing 15 to 15,000.

SUPERIOR SAFETY SHOE COMPANY
1478 BROADWAY • BEDFORD, OHIO 333 WEST FIRST • DAYTON, OHIO
SEE US AT BOOTH 19 AT 21st ALL-OHIO SAFETY CONGRESS AND EXHIBIT

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Circle No. 64 on reader service card

Check the original

QUICK RELEASE BUOYANT WORK VEST

for Better Design, Performance, Safety

FLOATS WEARER VERTICALLY—pads support chin and back of head out of the water.

QUICK RELEASE ROD pulls out easily, disengages all fasteners.

HANDY BELT SNAP prevents vest from floating off wearer.

LIGHT, NOT BULKY—just 34 oz., vest is only 1¼" thick.

CAN BE LAUNDERED like work clothes. Vinyl plastic unaffected by most oils, acids, or perspiration and it is odorless.

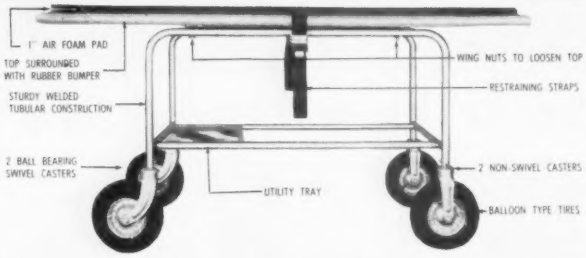
For details and prices write:

SAFETY FIRST SUPPLY COMPANY

425 Magee Street, Pittsburgh 19, Pa.

Branches at Cleveland, Toledo, Ohio and Charleston, W. Va.

a ***"MUST"*** *for your first aid . . .*



HAUSTED Industrial Wheel Stretcher

Don't complicate the plight of an injured worker by moving him carelessly!

Use a low-cost Hausted Industrial Wheel Stretcher, specifically designed for the first aid departments of all industrial plants.

The top of this wheel stretcher may be removed and set on the floor on its 2" legs. This permits easier, safer placement of injured worker on litter following an accident.

Balloon-type pneumatic tires on ball-bearing wheels, a full size, 26¾" x 74", 19-gauge steel litter top with a rubber bumper surrounding all edges are popular features. A 1" air foam pad and pair of restraining straps are provided.

The Hausted Industrial Wheel Stretcher is made of welded 1⅛" steel tubular frame. It has an aluminum utility tray for blankets, etc.

Made by the Simmons Company, Hausted Division, the largest producer of a line of hospital wheel stretchers and allied equipment. It is engineered to give value and years of trouble-free service.

For full details and price, write to:

SIMMONS COMPANY
HAUSTED DIVISION
MEDINA, OHIO

Circle No. 72 on reader service card

Advertisement

Head to Toe Protection

The Issco Proximity Suit

Made in one unit (plus gloves). Neoprened fiber glass cloth lined, extremely pliable. Highly polished aluminized asbestos surface reflects 90% of radiant heat enabling wearer to work in very close proximity to heat.

• Zipper front. **SCOTCH-SHIELD** BRAND ALUMINIZED FABRIC

Protective Clothing for Every Situation.

Industrial Safety Specialties Co.

Maple & Lawn Aves. Sellersville, Pa.

Phone ALpine 7-2664

Circle No. 63 on reader service card

Previewing Spring Shows

continued from page 86

New York Safety Convention Exhibitors

Aetna Casualty & Surety Co.
Allstate Insurance Co.
American Optical Co.
American Safety Equipment Corp.
Anderson Co.
Ansul Chemical Co.
Atlas Safety Equipment Co.
Bausch & Lomb, Inc.
Best's Safety Publications
Bostwick Associates, Inc.
Chesebro-Whitman Co.
David Clark Co., Inc.
Davis Emergency Equipment Co., Inc.
R. E. Dietz Co.
Fibre-Metal Products Co.
Fine Organics, Inc.
Ford Division, Ford Motor Co.
Granet Corp.
Guardian Safety Equipment Co.
Haus of Krause,
Wolverine Shoe & Tanning Corp.
Hilti Rapid Fastening Systems, Inc.
Hygiene Research, Inc.
Hy-Test Safety Shoes Division,
International Shoe Co.
Industrial Gloves Co.
IPCO Safety Products Co.
Iron Age Division, H. Childs & Co., Inc.
Jones & Co.
Keystone View Co.
Walter G. Legge Co., Inc.
Lehigh Safety Shoe Co., Inc.
Thom McAn Safety Shoe Division,
Melville Shoe Corp.
Julian A. McDermott Corp.
Merrill Brothers, Inc.
Metropolitan Life Insurance Co.
Meyer Machine, Inc.
Miller Products Co., Inc.
Mine Safety Appliances Co.
New York Telephone Co.
Notte Safety Appliances Co.
Olympic Glove Co., Inc.
Pac-Kit Safety Equipment Co., Inc.
Positive Safety Manufacturing Co.
Pow-R-Safe, Inc.
Protectoseal Co.
Pulmosan Safety Equipment Corp.
Putnam Rolling Ladder Co., Inc.
Record Industrial Co.
Safety First Products Corp.
Safety Tower Ladder Co., Inc.
M. Sickles & Sons
Standard Fire Alarm & Signal, Inc.
Standard Safety Equipment Co.
State Insurance Fund
Stephenson Corp.
Tect, Inc.
H. Texier Glove Co., Inc.
Tingley Rubber Corp.
United States Safety Service Co.
Watchemoket Optical Co., Inc.
Welsh Manufacturing Co.
Wilkins Co., Inc.
Willson Products Division, Ray-O-Vac Corp.
W. S. Wilson Corp.

Northern California Safety Congress & Exhibits

Dates: April 11-12
Place: Hotel Clermont, Berkeley, Calif.
Sponsor: Eastbay Chapter, National Safety Council
1322 Webster Street, Oakland, Calif.

"Safety On and Off the Job" is the theme of the 9th Annual Northern California Safety Congress & Exhibits. Registration ($2) will run 8:30 to 9 each morning.

In northern California, the off-the-job injury rate for most industries is 9 to 12 times the work injury rate. Industry itself, therefore, asked that this congress center its attention largely on off-the-job safety programs.

Specialized sessions will go into safety questions faced by the metals industry and by chemical plants. Others will cover factory electrical and gas hazards, construction safety, and fleet driver supervision. A good deal will be said about California workmen's compensation insurance.

continued on next page

Circle No. 67 on reader service card

Be ready for hot weather

early order DISCOUNT!

All "Pep-Up" orders received before April 15 qualify for a 5% discount! If you prefer, shipments will be delayed until June 1, 1961. ORDER NOW!

- Combat heat fatigue
- Help employees feel good and retain full vigor
- Reduce hot weather accidents.

"Pep-Up"

the original and highest quality
IMPREGNATED SALT TABLETS

in new, sanitary "throw-away" dispensers for indoor or outdoor use!

IN SIZES OF 500 or 1000 TABLETS

IMPREGNATED TO PREVENT SALT SICKNESS

ITEM	CAT. NO.
500 tablets in expendable dispenser	1114
1000 tablets in expendable dispenser	1124
1500 tablets in bulk carton	1131
Carton 24 "Vest Pocket" vials of 20 tablets in each vial	1101

ORDER NOW FROM

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Kansas City 8,
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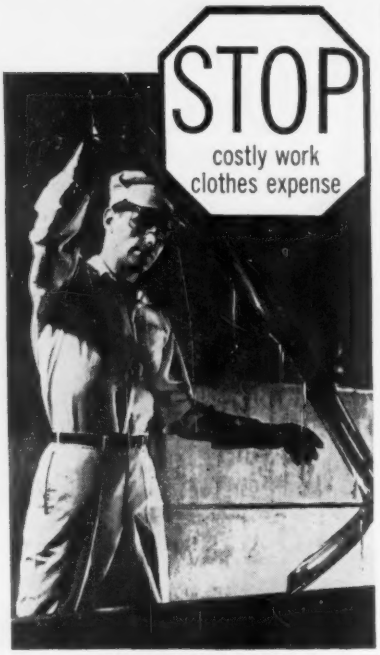

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Previewing Spring Shows

continued from page 89

Northern California Safety Congress Exhibitors

American Optical Co.
Ansul Chemical Co.
Auto-Crat Manufacturing Co.
Bausch & Lomb, Inc.
Brenton Equipment Co.
E. D. Bullard Co.
By's, Inc.
L. N. Curtis & Sons
Edmont, Inc.
Ford Division, Ford Motor Co.
Franklin Optical Co.
Haws Drinking Faucet Co.
Himco
Hy-Test Safety Shoes Division, International Shoe Co.
Walter G. Legge Co., Inc.
Lehigh Safety Shoe Co., Inc.
Mar-Len Supply Co.
Marzetta Sign Co.
Mine Safety Appliances Co.
Notifier Corp.
Onox, Inc.
Searjeant Metal Products Co.
Tulareloft, Inc.

Michigan Safety Conference

Dates: April 11-13
Place: Exhibit Hall, Civic Center, Lansing, Mich.
Sponsor: Michigan Safety Conference
K. S. Hedges, Executive Secretary
c/o General Motors Corp., Detroit, Mich.

THE Michigan Safety Conference is divided into sections the way most big safety meetings are. The 1961 program was not available in detail as we went to press.

Confirmed Exhibitors As of February 10

Abso-Clean Chemical Co.
Aden Supply Co.
Advance Glove Manufacturing Co.
Almco Industrial Supplies
American Optical Co.
Ansul Chemical Co.
Argus Supply Co.
Averill Equipment Co.
Boyer-Campbell Division, White Sewing Machine Co.
Canteen Service Co.
Chrysler Corp.
Circul-Air Corp.
City Cleaners-Laundry
Coca-Cola Co. (Detroit)
Columbus McKinnon Chain Corp.
Coolman Industries
M. E. Cunningham Co.
Dockson Corp.
Sterling H. Dockson
Fibre-Metal Midwest, Inc.
Fyr-Fyter Co.
General Motors Corp.
Goodrich Shoe Co.
Holland-Racine Shoes, Inc.
Howe Services, Inc.
Hy-Test Safety Shoes Division, International Shoe Co.
Interstate Vending Co.
Iron Age Division, H. Childs & Co., Inc.
Jackson Products, Air Reduction Sales Co.
Kellems Co., Inc.
Kindy Optical Co.
Knapp Brothers Shoe Manufacturing Corp.
Lehigh Safety Shoe Co.
Thom McAn Safety Shoe Division, Melville Shoe Corp.
Mechanics Laundry Co.
Miller Equipment Co., Inc.
W. F. Miller Garden & Lawn Equipment
Mine Safety Appliances Co.
Multi-Matic Corp.
Munnings Safety Shoe Service Co.
National Safety Products Co.
Oldsmobile Division, General Motors Corp.
Power Materials Co.
Safety Services, Inc.
Safway Steel Scaffolds, Inc.
Seco Safety Products Co.
Speedfast Corp.
Speidel Safety Service
Standard Glove Co.
Surety Rubber Co.
Union Steel Products Co.
United States Safety Service Co.
Wallace Opticians (Lansing)
Wallace Optical (Detroit)
White-Haines Optical Co.
Willard Safety Shoe Co.

Central Indiana Safety Conference

Dates: April 26-27
Place: Claypool Hotel, Indianapolis, Ind.
Sponsor: Indianapolis Safety Council
320 North Meridian Street, Indianapolis 4

UNLIKE MOST meetings sponsored by local safety councils, this 14th Central Indiana Safety Conference & Exhibit is limited to occupational safety.

Jack E. Gunnell, director of the Indianapolis Safety Council (a division of the city chamber of commerce), told us: "This conference is distinguished by the fact that each year the top business and industrial

continued on page 92

How much are you paying for clumsy hands?

490,000 hand and finger injuries, reported last year to the National Safety Council, cost industry an average of $332 each. This focuses attention on one problem faced by safety directors: Hands made tired and clumsy by stiff, ill-fitting work gloves.

On many operations requiring hand protection, it has been shown that safety and efficiency improve — and cost goes down — when this extra-flexible Snorkel glove is adopted. Its 2-piece jersey liner eliminates seams from working areas; a wing thumb and preflexed fingers provide better fit and grip; and the special vinyl coating, non-slipping even in grease, protects against abrasion and chemicals. For example:

CASE No. 622: Handling plate glass in caustic soda and nitric acid solutions, the *job-fitted* Edmont Snorkel gave better protection and surer wet grip than an expensive unlined rubber glove. Cut glove costs 79%.

Edmont makes many other gloves using plastic, neoprene and natural rubber coatings. They are *job-fitted* for many handling operations and exposure to heat, oils and chemicals. For example:

CASE No. 628: $58 a dozen neoprene gauntlets lasted 5 shifts washing appliance parts in kerosene-base solution. Less expensive *job-fitted* Edmont Grappler gauntlets wore 10 shifts . . . reduced glove costs 86%.

CASE No. 661: Unlined neoprene glove averaged 12 shifts handling plating racks in sulfuric and fluoboric acids. Edmont's *job-fitted* Neox glove (reinforced neoprene coated) wore 32 shifts. Glove costs dropped 75%.

CASE NO. 568: Handling 100 pound bags of chemicals, goatskin gloves wore 10 shifts. *Job-fitted* Grab-it gloves, coated with non-slip rough-finish natural rubber, wore more than 20 shifts and also gave far safer grip.

FREE TEST OFFER TO LISTED FIRMS: Tell us your operation, materials handled, temperature condition. We will send samples of the correct glove for on-the-job testing. Write Edmont Inc., 1244 Walnut Street, Coshocton, Ohio. In Canada, write Edmont Canada Ltd., Cowansville, Quebec.

Edmont
JOB-FITTED GLOVES

Circle No. 69 on reader service card

Previewing Spring Shows

continued from page 90

leaders of Indianapolis and central Indiana personally participate in the 2 days of sessions. The top executives serve as members of the safety conference advisory committee, share responsibility for presiding at various sessions, and sit at the speakers' table the night of the conference banquet. Approximately 65 presidents, general managers, works managers, and so on occupy the speakers' table, and all are introduced."

The 1961 theme for the conference is "Safety—Ever Expanding." The program will include fire control demonstrations with real fires and rescue work, material on industrial hygiene, sessions on first aid, and discussions of accident prevention psychology and methods. Banquet speaker will be the National Safety Council president. The whole program, Gunnel said, will aim especially at helping the small employer.

A summary at the conclusion of the conference will point out how those in attendance can best apply what they learned to their own plants. Everyone may take part in a prize drawing.

Central Indiana Safety Conference Exhibitors

American LaFrance, division of Sterling Precision Corp.
American Optical Co.
Averill Equipment Co.
Cain Safety Service
Hy-Test Safety Shoes Division, International Shoe Co.
Iron Age Division, H. Childs & Co., Inc.
Jomac, Inc.
Keystone View Co.
Lehigh Safety Shoe Co.
Thom McAn Safety Shoe Division, Melville Shoe Corp.
Midwest Fire & Safety Equipment Co.
Mine Safety Appliances Co.
Mineweld Co. of Indiana, Inc.
Orr Safety Equipment Co.
Peerless Electric Supply Co.
Protectoseal Co.
Safety Corp.
Searjeant Metal Products, Inc.
Standard Glove Co.
United States Safety Service Co.
Wash-Rite Co.
West Chemical Products, Inc.
White-Haines Optical Co.

All-Ohio Safety Congress & Exhibit

Dates: May 2-4
Place: Deshler Hilton Hotel, Columbus, Ohio
Sponsor: Division of Safety & Hygiene, Industrial Commission of Ohio
400 South Front Street, Columbus 15, Ohio

So BIG it has to meet in two hotels—that's the 31st Annual All-Ohio Safety Congress & Exhibit. The Deshler-Hilton will be headquarters. Some meetings will assemble at the Neil House.

Combined with this State congress will be a meeting of the east central region of the American Society of Safety Engineers. This region takes in western Pennsylvania, northern Kentucky, West Virginia, and most of Ohio.

ASSE sessions (Tuesday afternoon, May 2) will include an idea exchange to answer questions on industrial safety.

continued on next page

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(partial list)

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FORMALDEHYDE
PAINTS (water base)
PLATING SOLUTIONS
RUST PREVENTATIVES
SALTS
SILICATES
SOLDERING FLUXES, FUMES, PASTE
STEEL PICKLING
SULFURIC ACID
UREA — FORMALDEHYDE GLUES

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FIBER GLASS
GREASES
GRIME
LACQUERS
LEAD DUST and FUMES
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PAINT REMOVERS (solvent)
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Circle No. 70 on reader service card

Those with special interests will split into sections, under the leadership of outstanding safety, fire protection, and industrial hygiene people. Sectional discussions will range from "Living With Radiation" (chemicals) to "Fork Lift and Power Truck Safety" (foundries), from "Labor Looks at Safety" (petroleum) to "History of SAC's Safety Program" (aviation).

Confirmed Ohio Exhibitors As of Press Time

Acme Safety Products Co.
American Optical Co.
Canfield Oil Co.
Dayton Safety Supply Co.
Dilley Manufacturing Co.
Harold D. Hard Co.
Holland-Racine Shoes, Inc.
Hy-Test Safety Shoes Division, International Shoe Co.
Iron Age Division, H. Childs & Co., Inc.
Kimball Safety Products Co.
E. A. Kinsey Co.
Walter G. Legge Co., Inc.
Lehigh Safety Shoe Co.
Thom McAn Safety Shoe Division, Melville Shoe Corp.
Mine Safety Appliances Co.
Ohio Overall Cleaning Co.
Patent Scaffolding Co., Inc.
Peerless Optical Co.
Positive Safety Manufacturing Co.
Protectoseal Co.
Richmond Glove Corp.
Safety Clothing & Equipment Co.
Safety First Supply Co.
Safway Steel Scaffolds, Inc.
Standard Glove Co.
Standard Safety Equipment Co.
Strong, Carlisle & Hammond, division of White Sewing Machine Co.
Superior Safety Shoe Co.
United States Safety Service Co.
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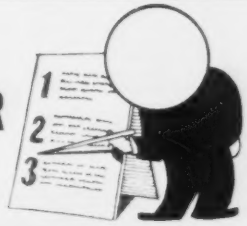
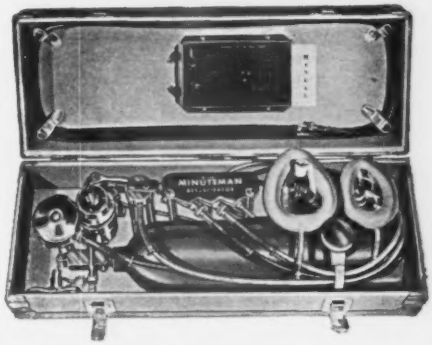
The STEPHENSON MINUTEMAN RESUSCITATOR

saves life three ways



This ingeniously compact instrument, weighing under 30 lbs. with tank, combines the functions of three units in one. As a Resuscitator it actually breathes for the patient who is unable to do so. As an Inhalator it is used where the patient can breathe but requires more oxygen. As an Aspirator it clears the air passages of mucus, froth, blood or other obstruction. With an extra Midget attachment, it will resuscitate two patients and aspirate a third simultaneously. Pressures adjustable from Adult to Infant with manual override when needed and with mixtures from 100% oxygen to 50% oxygen—50% nitrogen from the air.



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Model 1J
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Write us on your firm's letterhead for sample gloves for test purposes.

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Fire Inspection

continued from page 48

by one or two men. Planners can suggest, but final arrangements must be made with the needs of all departments in mind. You can arrange a final timetable only after talking over the preliminary suggestions with production foremen, the personnel director, maintenance supervisors, and the plant manager. But arrange a timetable you must. If you leave the who and when up in the air, no inspection ever will be made.

9. *Equip every inspector properly.* Harmon says an inspection checklist and notebook should be supplemented by a flashlight. "Too many things are thrown into dark corners," he explains. "Inspectors may overlook flammable materials unless they can see into unlighted spaces." In some plants, inspectors need explosion-proof flashlights.

10. *Choose a good administrator.* You need a leader. He may not be a top executive, nor even a foreman. But he has to be so interested in making your program work that he keeps others interested, too. And he must be able to keep the program running smoothly. He may find that having some inspectors specialize in particular hazards or plant areas will work best. This plan has been effective, Harmon says, in some Ohio plants.

11. *Set up a tickler file.* This helps you follow up on maintenance, new equipment, reinspections. The file may be simple, but without it your program is dead. Too many supervisors drop notes from inspection tours into desk drawers and forget them. The head of your program, your plant manager, the safety director, your foremen, all should know the results of each inspection. Your tickler file makes sure these people really do what the inspection reports say they should do.

12. *Teach fire prevention.* Use the inspection program to impress all workers with the need for constant care. This goes further than handing out leaflets and putting up posters. Tell workers what inspections find, and how the workers can help prevent the hazards that are found. "It's likely," Harmon says, "that your teaching will carry over into what your people do at home, and prevent a good many residential fires."

Mix points as needed

That's the 12-point program. The points aren't in order. Some overlap. In your own plant, you may have to start with point 12 and build up to point 3. In other plants, a program may grow out of a combination of point 2 and the public inspections mentioned under point 7. No matter how you get your program started, you'll have to train your inspectors as thoroughly as you train your fire brigade—even more thoroughly, if anything.

Harmon has a story that may help you sell your program to your workers:

Many men buy their own tools. A plant fire in Ohio destroyed one machinist's tools. It took him 3 years to pay for a full new set. An inspection program that prevents fires helps workers as much as it helps companies. • •

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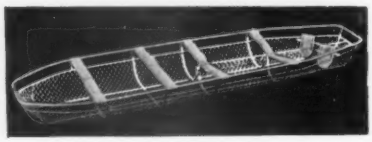

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SAFETYMAN'S CALENDAR

events to attend

See "Previewing the Spring Shows" (page 86) for details about April and May meetings not listed here.

APRIL 9-13. *American Industrial Hygiene Conference.* Sheraton-Cadillac Hotel, Detroit. American Industrial Hygiene Association will meet April 9-13; American Conference of Governmental Industrial Hygienists meets April 9-10.

APRIL 18-20. *The 5th Annual National Industrial Mutual Aid & Disaster Control Seminar.* Houston, Texas. Information: Ken Yandell, seminar planning chairman; The National Institute for Disaster Mobilization, Inc., Suite 501, 475 Fifth Ave., New York 17, N. Y.

APRIL 24-28. *Arson Investigation.* MAY 15-19. *Basic Fire School.* Purdue University, Lafayette, Ind. Information: Professor Shelby Gallien, director, Public Safety Institute, Purdue University, Lafayette, Ind.

MAY 1-3. *7th Central New York Safety Conference & Exposition.* Hotel Syracuse, Syracuse, N. Y. Information: Newell C. Townsend, manager, Greater Syracuse Safety Council, Syracuse Chamber of Commerce, 351 South Warren St., Syracuse 2, N. Y.

MAY 10-12. *31st Annual North Carolina Statewide Industrial Safety Conference.* Jack Tar Durham Hotel, Durham, N. C. Information: H. S. Baucom, director of safety, North Carolina Industrial Commission, Raleigh, N. C.

MAY 10-11. *Annual Industrial Safety Association of Iowa Meeting.* Savery Hotel, Des Moines. Information: Industrial Safety Association of Iowa, 611 Central National Building, Des Moines 9, Iowa.

MAY 25-26. *37th Annual Conference of the Lake Superior Mines Safety Council.* Hotel Duluth, Duluth, Minn. Information: Allen D. Look, Lake Superior Mines Safety Council, 321 Federal Building, Duluth 2, Minn.

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Pictures and information here come from manufacturers, and represent their own assessment of their products and services. To obtain more details about any item, circle the correct number on the reader service card and mail the card to us. No postage needed.

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little, is guaranteed for a year. Comes in two sizes to fit all linemen's standard rubber gloves.

Circle No. 201 on reader service card

Women's safety glasses

Here's the easy way for safety directors to encourage women to wear safety glasses: two flattering styles of safety glasses for blondes, brunettes, or redheads. Frames and temples of resistant plastic, snap-out lens for quick replacement, extra

continued on page 99

THE KENNEDY **"VICTORY"** CAP

designed for GREATER SAFETY for all industrial Jobs!

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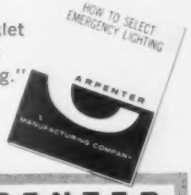
Send for free booklet "How to Select Emergency Lighting."



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TYPE OF BUSINESS _____

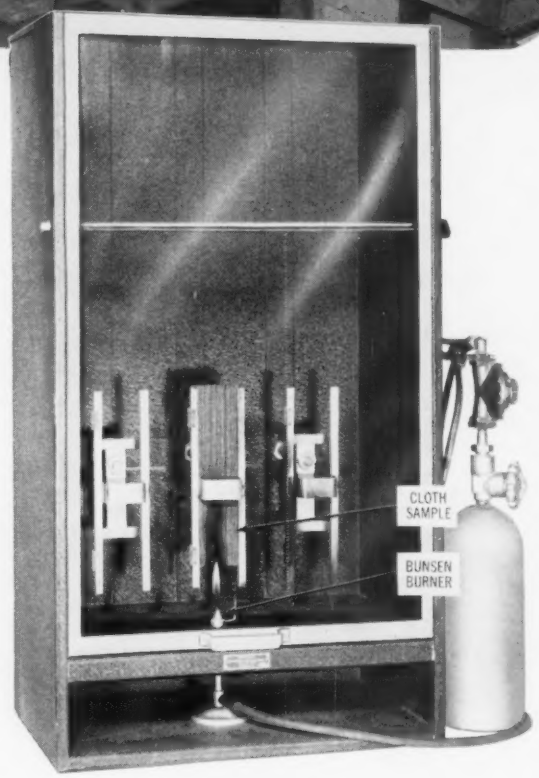
In Canada Mail Coupon to: Northern Electric Company, Ltd. 1000 Guy Street, Montreal

Circle No. 60 on reader service card

FROM START TO FINISH

● KIMBALL Safety Clothing is carefully fashioned by experts who know how to achieve the greatest degree of comfort and safety in every type of safety garment. Whether of pure wool, leather, asbestos or fire-resistant cotton, each KIMBALL garment is guaranteed to give satisfaction in the use for which it is designed. Quality control includes constant checking on all types of cloth to make certain they measure up to A.S.T.M. specifications for flame resistant qualities.

Note our special testing equipment for this purpose.



OTHER KIMBALL SAFETY PRODUCTS

Eye Protection:
Spectacle Goggles, Welding Goggles, Composition Goggles, Sideshields.

Hand Protection:
GLOVES:
Welder's, Asbestos, Steel Stitched.
MITTENS:
Welder's, Asbestos, Steel Stitched.

Body Protection:
CLOTHING:
Wool, Flameproofed Cotton.
LEGGINS and SPATS:
Leather, Asbestos, Flameproofed Cotton.
APRONS:
Leather, Asbestos, Flameproofed Cotton.

Kimball SAFETY PRODUCTS COMPANY

9310 Wade Park Avenue • Cleveland 6, Ohio

Circle No. 82 on reader service card

continued from page 97

sturdy bridge in 3 sizes. Solid colors or two tones. Available with side-

shields. Willson Products Division, Ray-O-Vac Corp., makes them.

Circle No. 202 on reader service card

Radiation suit

Attenue-Suits, tests show, can be safely worn in areas where the radar field level is 10,000 times greater than the USAF maximum safe limit of 10 milliwatts per square centimeter. Per-

fected by the Filtrom Co., Inc., this one-piece suit weighs only 10 pounds, and the wide vision shield permits 130° vision.

Circle No. 203 on reader service card

Folding sideshields

Watchemoket Optical Co. produces safety frames with soft vinyl sideshields that fold flat against the frame for easy storage in pocket or carrying case. Featuring facial contours, tele-

continued on next page

...are you getting MAXIMUM SAFETY?

"Supers"

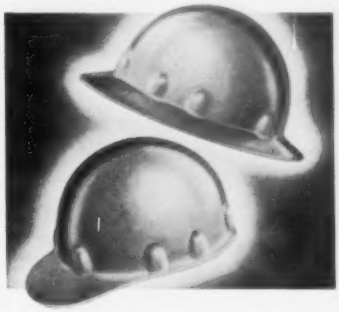
COVER EVERY head HAZARD!

SuperLite® A-1 A-2

Safety-ribbed, heat treated aircraft-type aluminum for maximum rigidity, strength and toughness. Lightest weight! Anodized to reflect heat and to resist corrosion. Smartest appearance. World's most comfortable polyethylene suspension.. an exclusive feature! Natural color or many others on special order. *Ask for Bulletin 55.*

SuperGlas® P-1 P-2

For maximum protection, durability, economy, Rugged, clean, sterilizable, self-extinguishing, Meet Federal Specs. GGG-H-142B. Exceed Federal Specs. for insulation resistance. No dangerous metal parts. Smooth dome avoids impact concentrations. 9 standard "molded thru" colors including phosphorescent, for job coding. *Ask for Bulletin 55.*



SuperLectric® E-1 E-2

Guards against high voltages, impact and penetration in high or low ambient temperatures. Meets all E.E.I. AP-1-1954 specifications. Smooth domes avoid impact concentrations. Exclusive polyethylene suspension gives maximum comfort. Yellow, White, Orange, Gray; other colors on special order. *Ask for Bulletin 55.*

Others tell us (so we don't need to be modest!) that these *"Supers"* with their exclusive suspension are the most comfortable, best looking and most economical that money can buy. All types of FIBRE-METAL safety and welding equipment are described in Catalog No. 26. Bulletin 55 covers hats and caps. **Ask your Welding & Safety Distributor!**

M-2

For Miners, too! SuperGlas with Lamp Bracket

The FIBRE-METAL Products Company | CHESTER PENNA

In CANADA: Fibre-Metal (Canada) Limited, Toronto

Visit us at THE WELDING SHOW — New York Coliseum — BOOTH 616

Circle No. 83 on reader service card

No. 8 in a series of washroom survey comments from "SBS soap counselors"

We showed them how to cut Soap Waste to the bone!

T. J. O'Brien

SBS Division Manager and veteran soap counselor on our East coast, reports these conditions at a large plant in his area:

"We found soap waste a major problem in 17 of the 27 washrooms surveyed. Waste powdered soap deposits made an unsightly mess of washbasins and made floors dangerously slippery — ran up unnecessary housekeeping costs. Employee morale took a beating even though management was paying through the nose.

"They were very interested in viewing 'Operation Pinpoint'—especially the part that points out how easily SBS 60 Cream Deodorant Soap prevents waste. We demonstrated afterwards how this thick-bodied cream clings to the skin, won't drip or run off like a liquid or powder. We also pointed out that only 36 'SBS 60' dispensers, filled twice weekly, will do the work of the 67 dispensers now in use that need filling once a day!"

Money-saving suggestions **like this** ***begin*** **with OPERATION PINPOINT–a thought-provoking presentation filled with facts about skin hygiene and washroom maintenance. The SBS soap counselor serving your area can pinpoint the right soap to do every skin cleansing job best and at lowest cost in your plant. Let him show you OPERATION PINPOINT . . . just call your nearest SBS office, collect.**

the washword of industry

SBS sugar beet products co.

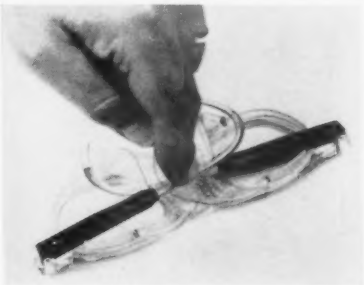
SAGINAW, MICH. • Los Angeles, Calif. • Newark, N.J.
CANADA: Chemical By-Products, Ltd., Toronto, Ontario

Circle No. 84 on reader service card

New Products

continued from page 99

scopic temples, and universal nosebridge that fits all workers. Rapido

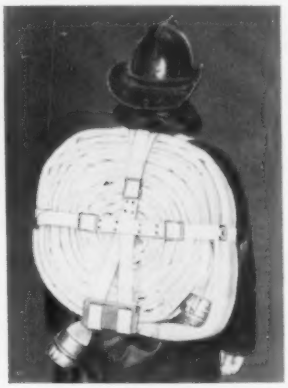


Fold Flap comes in glass or plastic lenses, weighs less than 2 ounces.

Circle No. 204 on reader service card

Hose carrier

The Doughnut Roll Hose Carrier rests comfortably on the back. Developed by the Atlas Safety Equipment Co., it carries one 2½-inch roll of hose or two 1½-inch rolls. Easily

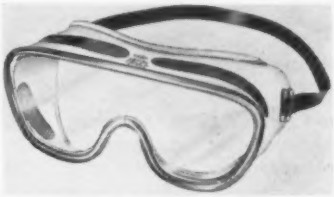


adjusted for comfort, a web strap secures hose vertically and horizontally. Designed for both municipal and industrial plant firemen.

Circle No. 205 on reader service card

All-plastic goggles

Maximum protection from chemicals, dust, and other eye hazards is



offered by U.S. Safety Service Co.'s lightweight Airflow Flex goggles.

Soft vinyl plastic frames provide a snug comfortable fit. Lenses are optically correct and may be changed without special tools.

Circle No. 206 on reader service card

"G" clamp adapter

A device for increasing the range of grips and eliminating another clamp is this pad adapter unit by

Merrill Bros. Easy to use—just slip it in and you convert a large grip into a compact clamp to handle small materials.

Circle No. 207 on reader service card

Safe air suit

Here's a life support system enclosed in an airconditioned suit that will provide enough air for 2 hours without recharging. Produced by Gar-

rett Corp.'s AiResearch Manufacturing Co. for toxic missile fuel handling, chemical processing, firefighting, mining—any area where you need protection from toxic fumes.

Circle No. 208 on reader service card

Nylon safety straps

According to Mathias Klein & Sons, Klein-Kord nylon safety straps, woven of filament nylon, have a load capacity of 2,750 pounds. Stretch is almost eliminated. The multiple plies

of nylon are frictionized in neoprene and vulcanized. Lengths of 6, 6½, 7, and 8 feet.

Circle No. 209 on reader service card

Antislip floor finish

Ladium Formula Super Antislip Floor Finish by Simoniz offers extra safe floor care. It retains full luster, hardness, and durability even after hard use. Expressly formulated for resilient and hard floors. In 1-, 5-, 30-, and 55-gallon sizes.

Circle No. 210 on reader service card

Sentry slings

When the sling is overloaded, a special ring elongates. The change in shape is a warning, helps you avoid

continued on next page

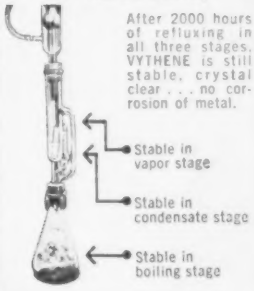
VYTHENE

Stabilized

I,I,I-Trichloroethane

Proved Safe and Effective For Cold Cleaning Applications! In its six years of service to many of the nation's leading industries, Vythene Safety Solvent has become a standard of safety and effectiveness in cold-cleaning applications. A stabilized 1,1,1-Trichloroethane, Vythene is a fast-evaporating, highly refined solvent of low toxicity... 20 times less toxic than carbon tetrachloride. Non-flammable and non-corrosive, *Vythene is available in 40 different modifications for specific applications.* Write for complete details, samples, and name of your nearest distributor.

Here's Dramatic Proof of VYTHENE'S Stability!



A Product of

TECT, INC.

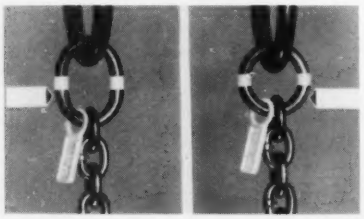
Northvale, N. J.

Circle No. 85 on reader service card

New Products

continued from page 101

permanent damage to the sling. Repair costs are low, since in most cases



only the ring has to be replaced. The Campbell Chain Co. has fully tested the Sentry slings for over a year.

Circle No. 211 on reader service card

Protective clothing

Workmen wearing Jomac's 1, 3, or 5 North PVC protective clothing are able to handle safely liquid oxygen, fuming nitric acid, or hydrogen peroxide. Ideal for working with liquid-fueled rockets and missiles. Seams are sewn with synthetic thread, electronically welded for maximum strength and protection. The clothing

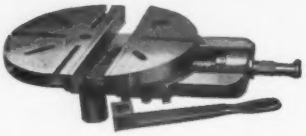
is tailored for comfort as well as for safety.

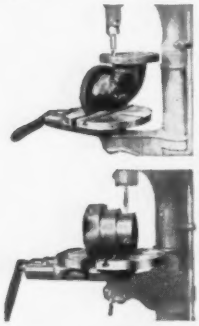
Circle No. 212 on reader service card

Prevent Accidents — Cut Costs!

USE THE **MODERN Safety Drill Table**

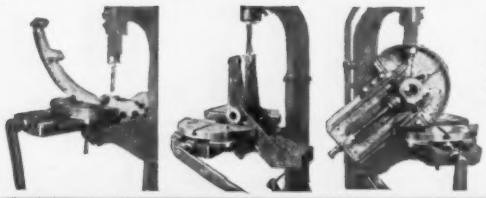
Your maintenance operator tries to hold a small piece for drilling a small hole — and loses a finger. Or, he makes a complicated set-up — which slips. SAFETY in miscellaneous drilling operations pays big dividends.





With the Modern Safety Drill Table, set-ups are **safe**, positive and fast. This table handles odd, irregular shapes without V-blocks, clamps or parallels — as well as dangerous, hand held small jobs. You just drop in the work and drill. Sizes for every need from 8" to 27½" diameters. Guaranteed to save its cost in labor alone every 6 months.

FREE TRIAL OFFER



Let us put a Safety Drill Table in your plant, freight prepaid. Use it 30 days. Ship it back, freight collect, if you are not enthusiastic.

Literature on Request

MODERN MACHINE TOOL CO.

2005 LOSEY STREET JACKSON, MICHIGAN

Circle No. 86 on reader service card

Platform ladder

Louisville Ladder Co. now markets a Master Platform Ladder your employees will find slip-proof — even when wet, greasy, or soiled with foreign particles. Its secret is a "sure foot" safety platform with an abrasive type surface. The platform is knurled aluminum. Even with this important safety feature, cost is low.

Circle No. 213 on reader service card

Paint spray respirator

American Optical Co. offers this respirator for protection against sprays and vapors of enamels, lacquers, and lead-based paints. Consists of a rubber facepiece covering the

nose and mouth and of two chemical cartridges that catch paint droplets. An inner unit filters out fumes and vapors.

Circle No. 214 on reader service card

Protective barrier cream

Prevent dermatitis with Kerodex #71, made by Ayerst Laboratories. Coat hands with it before they con-

tact sensitizing compounds like epoxy resin and glass wool. The film created by Kerodex #71 is quickly washed away, carrying with it all irritants.

Circle No. 215 on reader service card

Chiporweld eyeshield

This eyeshield was developed by Dockson Corp. for chipping or welding. This low-cost, lightweight, sturdy eye projector has a roomy, one-piece, pliable plastic frame which rests low

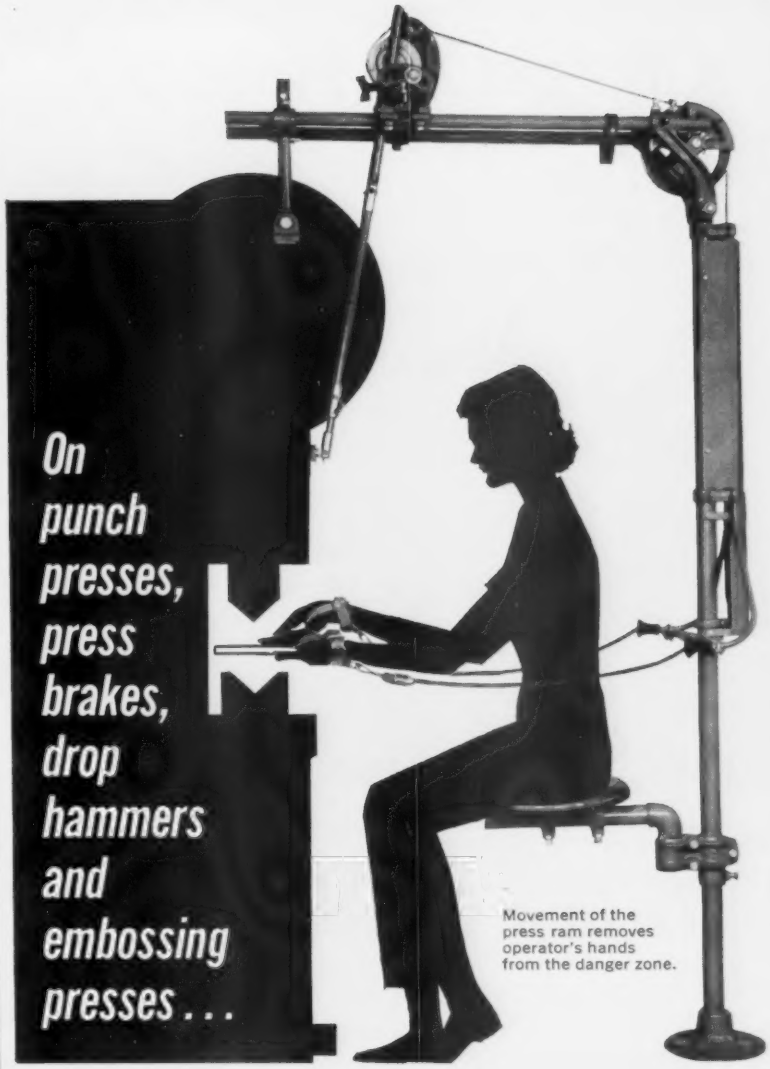
on the face to provide good vision. Clear lenses for chipping; green, for welding. Lenses are interchangeable, Plastic spacer frame between lenses stops fogging.

Circle No. 216 on reader service card

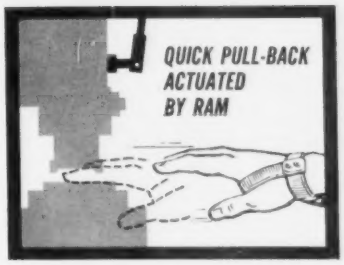
Spray first aid

Americaine topical anesthetic comes in ¾-ounce containers. Offers rapid relief from burns, cuts, lacerations, and abrasions. Two spraytainers of

continued on next page



POSSONS SAFETY DEVICES INCREASE PRODUCTION!



The operator makes no extra motions to operate the POSSONS PULL-BACK Safety Device. His movement or vision is not impaired by the safety equipment. His hands are free to begin the next cycle. The pull-back action of the POSSONS Safety Device is ordinarily not felt by the operator, since his hands are normally returned to a safe position. Increased confidence enables the operator to work faster . . . some users report up to 30% increase in production. More than 38,000 POSSONS Safety Devices are in use in over 2,500 plants. Engineering service available. Write for free catalog.

THE POSITIVE SAFETY MFG. COMPANY

4418 PERKINS AVENUE • CLEVELAND 3, OHIO • UTah 1-1878

In Canada: SAFETY SUPPLY COMPANY • Toronto, Ontario

Circle No. 87 on reader service card

Circle No. 89 on reader service card

CHARCO Protected

WITH TOP QUALITY

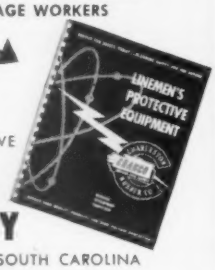
®FLEX-SAF GLOVES
®FLEX-FIT SLEEVES
BLANKETS AND CLAMPS

On the use and performance of Charco products depends our reputation, and the safety of those who use them —
NO WONDER WE MAKE ONLY THE FINEST.

CHARLESTON RUBBER COMPANY LEADS THE FIELD IN MANUFACTURE OF SUPERIOR PROTECTIVE EQUIPMENT FOR LINEMEN AND HIGH VOLTAGE WORKERS

FREE

36 PAGE CATALOG OF LINEMEN'S PROTECTIVE EQUIPMENT



CHARLESTON RUBBER COMPANY
22 STARK INDUSTRIAL PARK CHARLESTON, SOUTH CAROLINA

NEW and NEEDED!

EAGLE SAFETY PLUNGER CANS

safe cleaning with flammable liquids . . . strong, durable, reliable, Factory Mutual approved . . . press down on spring dasher and measured fluid is forced up to dampen swab or sponge . . . 1, 2 qt., 1 gal.

EAGLE DRIP CAN

for use where a faucet may drip or a slow leak may occur . . . reduces fire hazard . . . Factory Mutual approved . . . seamless steel body . . . 2 qt. capacity.

EAGLE SAFETY BENCH CANS

for cleaning small parts safely, quickly . . . approved by Factory Mutual . . . seamless steel body, finished in bright red . . . spring-mounted dasher acts as baffle to reduce fire hazards . . . 1, 2 qt., 2 gal.

ORDER FROM YOUR SUPPLIER

Write for free catalog showing Complete Eagle Line
Eagle products are also available in Canada

EAGLE MANUFACTURING CO., Wellsburg, W. Va.

Serving the Trade Since 1894

Circle No. 90 on reader service card

New Products

continued from page 103

Americaine have now been added to the standard unit system of first aid by the Medical Supply Co.

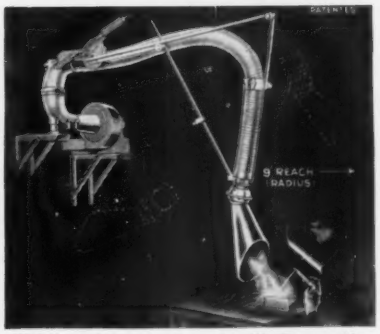
Circle No. 217 on reader service card

Skin cleanser

This 5-ounce tube of Vi-Lan antiseptic all-purpose skin cleanser works with or without water. Manufactured by Dameron Enterprises, Inc., it cleans face, hands, cuts, sores, abrasions, and lacerations. Especially suited for plant first aid.

Circle No. 218 on reader service card

Remove Welding Fumes at the Source... with RUEMELIN FUME COLLECTOR



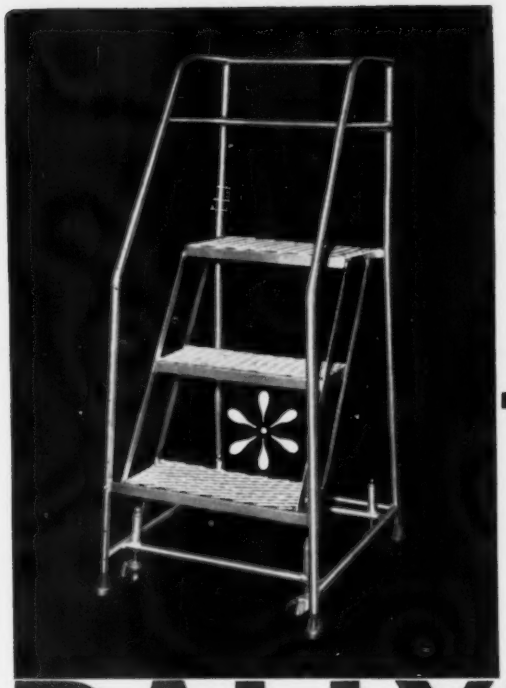
Welding shops equipped with Ruemelin Fume Collectors are assured of a clean shop atmosphere. Noxious fumes, heat and smoke are eliminated AT THEIR SOURCE. Improves working conditions . . . lessens fatigue . . . paves the way for increased plant production. Especially helpful in winter months when windows and doors are closed.

Note the new spring-loaded counterbalance mechanism which makes Fume Collectors much easier to handle.

WRITE FOR DETAILED INFORMATION

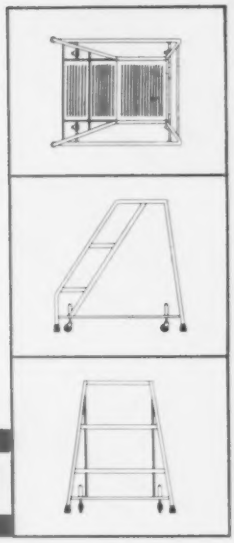
RUEMELIN MFG. CO.
3888 N. PALMER STREET • MILWAUKEE 12, WIS., U.S.A.
Mfrs. & Engineers • Sand Blast & Dust Collecting Equipment

Circle No. 88 on reader service card



LOW C.G.

-More Safety



BALLYMORE

Safety-Step LADDERS

WITH OR WITHOUT HANDRAILS

JUST as today's cars feature a low "c.g." for on-the-road safety, so Ballymore ladders feature a low "c.g." for all-level safety. The safe, wide-base pyramid design with a low center of gravity gives a new stability even at heights up to 15 feet.

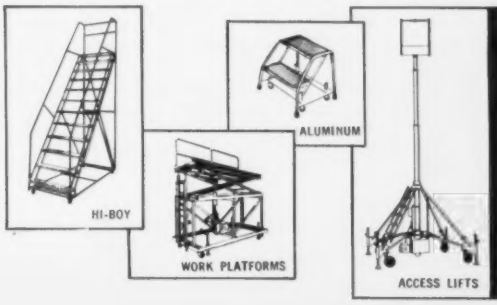
Sturdily welded, corrosion-resistant steel and aluminum Ballymore ladders are mobile and can be moved easily on casters to any area. Simple tip-toe pressure anchors the rubber tipped feet to the floor and securely positions the ladder.

The full range of Ballymore ladders, from 1 to 12 step, with handrails and without, features built-in safety. You can equip your plant with a mobile stairway of safety.

CALL YOUR LOCAL DISTRIBUTOR TODAY

Ballymore SAFETY LADDERS

For illustrated catalog covering complete line, write to BALLYMORE COMPANY • WEST CHESTER 14, PA.



BALLYMORE

EQUIPMENT FOR WORKING *Safely* ABOVE FLOOR LEVEL

Circle No. 91 on reader service card

Circle No. 92 on reader service card

THE SOLUTION TO AN OLD INDUSTRIAL PROBLEM

Contact Dermatitis

SILCONEX (77% silicone) is the most universal skin ointment now available. It protects not only against water dissolved materials but also against solvents and oil-solvent—water—chemical mixtures. It resists exposure to strong acids and alkalis, oxidizing agents, salts and other chemicals whether in water or organic solution. It prevents initial sensitization by allergens. It is non-conducting and therefore useful in electronic operations. Simple to spply, one or two applications a day provide ample protection. It has an important place as the most universal weapon against contact dermatitis.

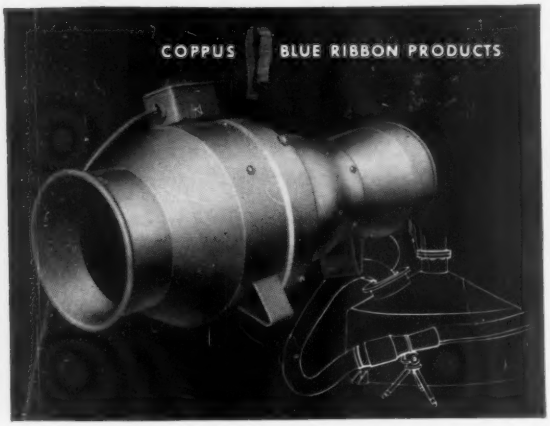
CLEREX & H-R CREAM SOLVENT PROTECTION protect the skin against organic solvents. They wash off with soap and water. **CLEREX** is a gel which forms a continuous, strong, elastic skin-adherent film which does not interfere with tactile sensation. The film is insoluble in all anhydrous organic solvents, oils and greases. It protects against the hydrocarbons (benzene, benzol, toluene, gasoline, varsol, turpentine, kerosene, solvent naphtha), the chlorinated hydrocarbons, nitriles and the polymerizable monomers (styrene, acrylonitrile, and unsaturated esters for producing polyester resins). Used in making and using paints, varnishes, plastics, polyester resin—fiberglas compositions, lacquers, inks, and in metal degreasing using trichlorethylene. **H-R CREAM** is a modification of **CLEREX** with a vanishing cream base. It is highly resistant to all the materials listed under **CLEREX**. It is useful where protection must be applied to the face and arms as well as the hands. It has proven highly effective against phenolic vapors, creosote, extreme exposure to coolants, tars, rubber-asphalt and rubber-tar mixtures, petroleum oils, plastic and adhesive compositions.

VEREX—a general purpose barrier cream widely used in both the office and the plant, in the mechanical, textile, chemical, rubber and process industries—protecting the skin against ordinary exposure to coolants, dirt, grease, inks, cement, sulphur, rust, carbon black, etc. Protects against contact with poison ivy. Soothing to the skin. Washes off with soap and water.

HYGIENE RESEARCH INC.

684 Broadway, New York 12, N. Y.

Literature and samples on request. Write Dept. O-361.



COPPUS "Blue Ribbon" Ventilator-Exhausters are portable and easily adaptable . . . for exhausting welding fumes or foul air from enclosed vessels. Mail coupon below for facts.

COPPUS ENGINEERING CORP.
304 Park Avenue, Worcester 10, Mass.

- ☐ in tanks, tank cars
- ☐ in underground manholes
- ☐ for exhausting welding fumes
- ☐ on boiler repair jobs
- ☐ for general man cooling
- ☐ to stir up stagnant air wherever men are working or material is drying

Name .....
Company .....
Address .....
City .....

COPPUS BLOWERS

Circle No. 93 on reader service card

Babbitt *Adjustable* **SPROCKET RIM**
with Chain Guide
CHANGES THAT DANGER ZONE TO A SAFETY ZONE

— cuts costs when you

SIMPLIFY PIPE LAYOUT

When you modernize to make money, go all the way. Cut piping costs to minimum with planned simplification. Give your staff a free hand to effect economies—at the same time, convert Danger Zones to Safety Zones. Equip every overhead valve wheel in your plant with Babbitt Adjustable Sprocket Rims with Chain Guides.

- They simplify pipe layout.
- They fit any size valve wheel.
- They are easy to install and operate.
- They operate any valve from the floor.
- They save time and money.
- The first cost is the only cost (no maintenance).
- They are packed completely assembled (one to a carton), with easy-to-follow instructions.
- A hot-galvanized rust proof chain is available for all sizes.

Babbitt Adjustable Sprocket Rims with Chain Guide are carried in stock by most mill supply houses. Just phone your mill supply salesman, or contact us direct.

Babbitt STEAM SPECIALTY CO.
12 BABBITT SQUARE, NEW BEDFORD, MASS., U.S.A.

Circle No. 94 on reader service card

LITERATURE
OFFERED IN THIS MONTH'S ADS

Oil Spunj: Oil Spunj absorbs soluble oil, lubricating oil, grease, and acids. Canfield Oil Co. offers a free sample, data, and prices.

Circle No. 76 on reader service card

Parts washers: A complete catalog on four low-cost models of Graymills Corp.'s Clean-O-Matic parts washers is available.

Circle No. 109 on reader service card

Safety ladders: Literature from the Ballymore Co. tells you how you can equip your plant with a mobile safety stairway. An illustrated catalog covers the company's full range of ladders.

Circle No. 91 on reader service card

Dynel fiber: A complete fact file on Dynel chemical-resistant work clothing is published by Union Carbide Corp. It says Dynel fiber is almost unaffected by acids, alkalies, and strong detergents.

Circle No. 45 on reader service card

Asbestos gloves: Racine Glove Co. will recommend the correct gloves for various hot jobs and send free samples for you to test.

Circle No. 11 on reader service card

Fire extinguishers: Ansul Chemical Co.'s latest catalog describes in detail the Ansul line of hand portable dry chemical, carbon dioxide, and water extinguishers—wheeled and stationary units — mobile equipment and automatic systems.

Circle No. 31 on reader service card

Welder's helmet: The simplest, most complete welding protection, according to bulletins from Welsh Manufacturing Co. One headgear, two front frames, and two basic shells provide fast headgear-to-helmet assembly.

Circle No. 32 on reader service card

Hand safety: Possons safety devices increase production and protect workers on punch presses, press brakes, drop hammers, and embossing presses. See details in the catalog of Positive Safety Manufacturing Co.

Circle No. 87 on reader service card

Side shield frames: Watchemoket Optical Co.'s bulletin 607 describes how Rapido Fold Flat side shield frames lie flat in your pocket, provide complete eye protection on the job.

Circle No. 43 on reader service card

Safety shoes: Iron Age safety shoes, in 50 different styles, are listed in the 1961 catalog.

Circle No. 5 on reader service card

Linemen's protective equipment: Charleston Rubber Co. presents a 34-page catalog of linemen's protective equipment including Flex-Saf gloves, Flex-Fit sleeves, blankets, and clamps.

Circle No. 89 on reader service card

First aid: Medical Supply Co. will send details on its practical No. 730 MSCO first aid kit for mounting on vehicle visors.

Circle No. 21 on reader service card

Protective clothing: Defense Apparel has literature on its head-to-toe clothing to protect workers against contamination and radioactive materials.

Circle No. 53 on reader service card

All-purpose cleaner: Walter G. Legge Co. will send you full information on an all-purpose cleaner, Texinol. Recommended for all flooring, resilient and rigid.

Circle No. 52 on reader service card

Safety clothing: Kimball safety clothing is carefully fashioned by experts who know how to achieve the greatest degree of comfort and safety. How this is done is told in literature from Kimball Safety Products Co.

Circle No. 82 on reader service card

Emergency lighting: When lights go out, Exide Lightguard goes on instantly and automatically. Details will be sent to you by Exide Industrial Marketing Division, Electric Storage Battery Co.

Circle No. 123 on reader service card

Tubeaxial fans: New portable Propellair tubeaxial fans with flexible duct are described in free literature from Robbins & Myers, Inc.

Circle No. 112 on reader service card

Safety hat suspension: Boyer-Campbell's detailed literature tells how a unique suspension makes safety hats and caps stronger, safer, lighter, and more comfortable.

Circle No. 59 on reader service card

Circle No. 95 on reader service card

NEW SINGER SAFETY SHIELD

In the plant or on the job

★ LIGHTWEIGHT ★ RUST-PROOF
★ LOW COST ★ FIRE-RESISTANT
★ ASSEMBLED OR TAKEN APART IN MINUTES WITHOUT TOOLS

Just think of it—no hooks, no bolts, no screws. Ideal for welding, grinding, machining etc. or can be used straight line as a protecting divider. Rust-proof steel frame with heavy fire-resistant duck curtain—attaches in seconds with with heavy duty snap fasteners.

In 4 standard sizes:
18" x 42", 36" x 48", 36" x 60", 36" x 72"

NEW BIG CATALOG
Describes screens in detail.
Complete line of work gloves, welding gloves and safety clothing.

Ask your dealer or write:
Special Products Division
SINGER GLOVE MFG. CO.
860 W. WEED St., CHICAGO 22, ILL.

BOOTH NO. 101—WELDING SHOW

MARTINDALE
DUST MASKS

Real protection at low cost

So easy to wear, yet large filter area gives positive protection against over 400 nuisance dusts. Mask weighs less than 1/2 ounce. Easy press-fit contour adjustment, fits any head size. Replaceable throw-away filter pads — only clean gauze touches the face. Satisfied users everywhere.

Protective Masks .....$ .30 ea.
No. 1 Refills (standard wt.) ... .02 ea.
No. 2 Refills (double-thick pad) .02½ ea.
Masks packed in individual envelopes. Refills packed 25 to a box. Minimum charge of C.O.D., $2.00. Minimum cash with order, $1.00. Postage paid on all cash orders.

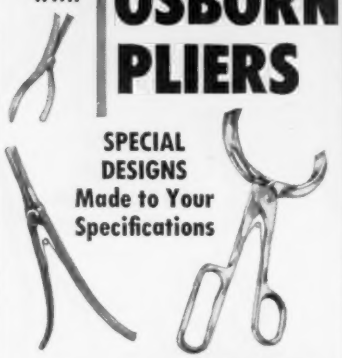
QUANTITY DISCOUNTS AVAILABLE

MARTINDALE ELECTRIC CO.
1311 Hird Ave. Cleveland 7, O.

Circle No. 96 on reader service card

Circle No. 98 on reader service card

YOU GET A
SURE, SAFE GRIP
with OSBORN PLIERS



SPECIAL DESIGNS Made to Your Specifications

Get SAFETY EQUIPMENT From SAFETY SPECIALISTS

LOCK-OUT DEVICE

Osborn OH
MANUFACTURING CORP.
WARSAW, INDIANA

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FOILLE
FIRST AID SPRAY *FOR BURNS*

FOILLE — the antiseptic, analgesic dressing — is indicated for fast, effective relief of pain from burns, sunburn, cuts, wounds and abrasions. Areas can be sprayed thoroughly to provide prompt patient comfort and eliminate painful swabbing. FOILLE fights infection and promotes healing. In 3 oz. and 10 oz. spray.

CARBISULPHOIL CO., DALLAS, TEXAS

ORDER NOW from your supplier

New washable fabric retains *flame resistance* thru 15 washings

PROTECTIVE WHEELER APPAREL

FPW means new economy for flame-proof clothing users

F.P.W. a new green flame-proof washable fabric that retains its flame resistance thru 15 washings by laboratory tests! This longer life cuts your replacement costs to the bone. Hard finish sheds sparks and light molten splash. F.P.W., along with Wheeler quality workmanship is unbeatable.

Wheeler F.P.W. coats have double thick collars, quick, secure snap button fronts, no raw edges — all hemmed or bound with flame-proof tape, and liberal overlaps to prevent gaps. Sleeves have adjustable snap cuffs, and sizes are extra liberal to promote freedom of movement.

All Wheeler F.P.W. garments are SANFORIZED! *All these bonus values for a new, new low price. Ask your jobber today!*

★ EXCLUSIVE
★ STRONG
★ LONG WEARING
★ ATTRACTIVE
★ NEW LOW PRICES

SEND FOR COMPLETE DETAILS

LABORATORY TEST RESULTS

No. of Launderings	Afterflame Seconds	Afterglow Seconds	Char Length Inches
0	0	0	2½
5	0	3	2¾
10	0	4	2 13/16
15	0	6	*3¼

*Char Length is still slightly less than that permissible (3½") Commercial Standard CS 129-47, Page 3.

another WHEELER EXCLUSIVE

WHEELER PROTECTIVE APPAREL, Inc.
228 WEST HURON STREET • CHICAGO 10, ILLINOIS

Circle No. 97 on reader service card

Safety Shorticles

Even Stacking Prevents Injuries

DiGiorgio Fruit Corp. photo

A LOADING WALL, or separator board, assures even stacking, helps prevent injuries from falling boxes. The boards are removed after other tiers of boxes are firmly in position.

Extinguishers Required for Roof Repairs

KOKOMO, IND., now requires that workers who use flammable materials on a roof carry fire extinguishers with them. Heating equipment for the materials may not be used on the roof.

The new ordinance stemmed from a recommendation of Kokomo Fire Chief Craig. He called for controls on roof repairs after a $1 million loss at the Cuneo Press and a $40,000 loss at the Leath Furniture Co. Both fires were traced to accidents that involved hot roofing materials.

Special Courses in Plant Security

THE Western Instructor Training Center (Alameda, Calif.), a technical school of the U.S. Office of Civil & Defense Mobilization, offers a series of courses for industrial security directors and public officials who come from west of the Mississippi. Each course runs 40 hours. There is no tuition

charge, and housing is furnished at Alameda.

One course, "Civil and Defense Mobilization," is intended to help industry develop its own plans and training for emergency operations. The course studies natural and wartime disasters.

The second course, "Radiological Monitoring for Instructors," teaches how to train others in using radiation detection and measuring instruments.

In many cases, the Government will reimburse students for a good share of their travel and living expenses.

For complete information about the courses, which are held weekly, write the center at 620 Central Avenue, Alameda. The telephone number is LAkehurst 2-4567.

Dermatitis record

The Bureau of Health Education, California Department of Public Health, 2151 Berkeley Way, Berkeley 4, Calif., offers free copies of a brand-new report: "Occupational Dermatitis in California." The 29-page report includes charts and text on frequency and cause of industrial dermatitis.

Rehabilitation Center Closed—Goal Reached

EMPLOYERS MUTUALS of Wausau (Wis.) has closed the rehabilitation center it set up in 1928. The center was the first of the kind established by a U.S. insurance company.

"Our objective," said J. E. Linster, vice president, claims department, "was to bring rehabilitation to the patient and to encourage others to do the same. With well established centers now operating in 90 Wisconsin communities, we have successfully completed our mission."

Linster emphasized that most rehabilitation specialists feel it is important to treat patients near their homes.

Employers Mutuals donated its rehabilitation equipment to the Wausau Memorial Hospital. The company center treated chiefly those injured on the job.

Project 66 Comes to Cleveland

THE GREATER CLEVELAND Safety Council is pushing Project 66, a development of the Pattern for Progress industrial safety program about which OCCUPATIONAL HAZARDS told you in February 1957.

Project 66 is a 5-year program. It aims at building industry's interest in off-the-job safety and at making industrial safety a community affair. A safety spectacular starting in the late summer will extend over 6 months, will include weekly radio and television broadcasts and a spate of newspaper publicity.

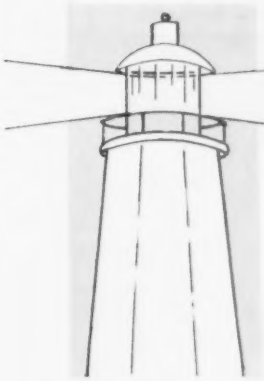
There's Real Danger When You Use Teflon!

BREATHE IN Teflon dust or vapor, and you're likely to get metal fume

continued on next page

WARNING

BEACONS



save lives and property!

Powerful revolving beams of light warn at great distances and over large areas, unimpaired by high noise levels.

FEDERAL 360 degree Beacon Rays identify danger spots, moving vehicles or emergency situations.

Ask for Bulletin #38

The WARNING LIGHT that's really bright!

#271 BEACON RAY LIGHT

FEDERAL SIGNAL SIGN and Corporation

13635 S. WESTERN AVE., BLUE ISLAND, ILL.

Circle No. 100 on reader service card

Safety Shorticles

continued from page 109

fever. The fever may not show up for several hours after your exposure, and it usually disappears within a day after its onset. Your muscles and joints ache, and you sweat a great deal. You alternate with chills and fever.

When you heat it to 360° F., Teflon is more dangerous. It gives off a gas that contains a number of fluorinated compounds. Breathing these vapors can cause ulcers in the respiratory tract, corrode the mucous membranes.

Teflon is dangerous enough, as dust or vapor, that the American Conference of Governmental Industrial Hygienists last year set a tentative threshold limit value of 0.005 parts per million parts of air for its decomposition products.

To safeguard workers against it, supply respirators or plenty of ventilation that carries Teflon products outside and away from the building. People who work with it should have chest X-ray examinations before they are assigned to their jobs. Make sure they aren't subject to chronic lung and bronchial trouble. And prohibit them from taking tobacco into their working area—smoking the stuff, when it has Teflon dust in it, may make them sick. • •

See K-LENS-M Booth 78 at The Greater New York Safety Convention & Exposition

Circle No. 101 on reader service card

Use Wet Collector for Gas-Soaked Dust

Pangborn Corp. photo

A WET DUST collector picks up gasoline-soaked soapstone and mica from tire-spraying operations at the General Tire & Rubber Co., Akron. A baffled hood pulls excess spray to the top of the station, sends it through a duct to the collector. The system has helped reduce the danger of fire, has cut housekeeping costs.

Partial protection

A Canadian plant allowed a 17-year-old boy to use only one side of his pullback guard harness. The boy's index finger was badly crushed—on the hand unprotected by the harness.

Heat Plus Friction Caused Explosion

USUALLY a compressed gas cylinder won't explode—it's built to exceptionally stiff safety standards. But an oxygen cylinder did blow two men to bits not long ago, according to a report in the Maryland Casualty Company's *Accident Prevention Service News*.

A worker tried to unload the

Circle No. 102 on reader service card

TULITO
SAFETY CLAMP
(Patented. Other Patents Pending)

LOCKS INSTANTLY!

Absolute Safety Assured

Forget the dangers of high climbing ...use TULITO SAFETY CLAMPS. Thousands are now in use on every type of structure.

FULLY APPROVED BY INDUSTRIAL COMMISSIONERS AND SAFETY ENGINEERS.

MEYER MACHINE, INC.
137 Bluff Street Red Wing, Minnesota

cylinder from a car. What happened, nobody really knows; but an explosion hurled parts of the cylinder several hundred yards, drove pieces through half-inch steel beams, jammed the main body of the cylinder through 5 inches of concrete and on into hard-packed earth. Safety plugs weren't blown, and the cylinder didn't split.

Insurance men guess that high heat in the automobile trunk, plus internal friction developed by the moving car, made the oxygen expand enough to burst the cylinder.

• •

Box your ashes . . .

At the Chase Brass & Copper Co. Cleveland Mill, ashes from the incinerator now go into dumpster boxes. A truck picks up the boxes, takes them to the dump immediately. The practice eliminates excessive dust around the incinerator plant.

Circle No. 106 on reader service card

GETS-A-LITE GUARD and GUIDE

Quickly and Easily Installed by Anyone — No Tools Needed!

- Simply slip GETS-A-LITE GUARD AND GUIDE over the fixture, as illustrated.
- Made of indestructible spring steel wire. Nothing to break, get out of order or replace. Will last indefinitely.
- Once installed, GETS-A-LITE GUARD AND GUIDE is NEVER removed.
- Nothing to unlock, fuss with or lock, when changing lamps.
- GETS-A-LITE GUARD AND GUIDE actually steers lamp into socket, enabling maintenance man to change lamp in 10 seconds!
- Available for 40 watt and 100 watt fluorescent lamps.

GETS-A-LITE Company—Dept. O-41
3865 N. Milwaukee Ave.
CHICAGO 41, ILLINOIS

PINPOINT HAZARDOUS NOISE LEVELS WITH

new

Only $150.00

H. H. SCOTT SOUND METER

- Compact–2" x 3" x 6"
- Rugged; Fully Transistorized
- 40 db to 142 db range
- Uses only one 22.5v battery

H.H.SCOTT
Instrument Div. 111 Powdermill Rd. Maynard, Mass.

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FROMMELT

PORTO-SCREEN
FROMMELT PORTABLE SELF-STANDING PROTECTIVE SCREEN

. . . FOLDS COMPACTLY FOR CARRYING OR STORING

Choice of Models and Fabrics

A-SERIES "50"
Sold in Kit Form — Hardware, Curtains, Hooks. "You Supply your own pipe".

B-SERIES "60"
Complete with Tubular Aluminum Frames and Curtains, Factory Assembled.

WRITE FOR DETAILS
FROMMELT INDUSTRIES, INC.
Dubuque, Iowa

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WHAT HAPPENS
When Compensation Cases Go To Court?

3,000 INDEX LISTINGS help you find the answers to workmen compensation claim problems. Actual decisions, containing court opinions. In easy-to-read, non-legal language. More than 490 pages. An invaluable book for those dealing with plant safety and workmen's compensation.

Send for free brochure TODAY!

Book Department
OCCUPATIONAL HAZARDS
812 Huron Rd. Cleveland 15, Ohio

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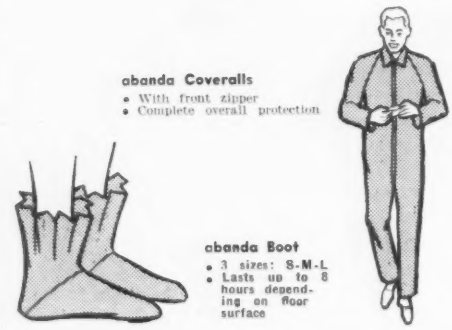
CLOTHE YOURSELF IN SAFETY

abanda DISPOSABLE CLOTHING

Protects Life and Products... *Costs Little!*

Specially Designed and Fabricated of Newly Developed Materials with Wear-Resistance For Heavy and Light Duty Jobs and Dirty Jobs

A new concept in clothing that spells safety-plus for industrial, laboratory and commercial fields, presently being incorporated by plant safety departments everywhere. The new type disposable paper clothing is lighter, cooler and more comfortable than normal work clothing. More important, the garments, ranging in articles for head to foot, provide an additional safety factor for workers, because they are more impervious than conventional clothes. They're ideal around delicate instruments, and electronic and atomic-related products, even pharmaceuticals. A polyethelene coating adds durability and lint resistance to every garment, also protecting against airborne contaminates. What's more, they're considerably less expensive than having regular work clothing cleaned.



Check These 7 Advantages To Cover Your Safety Problem

- **Provides an excellent shield against airborne contaminates**
- **Fire Retardant**
- **Water Repellent**
- **Prevents contamination from lint and dust**
- **Acid and Caustic Resistant**
- **Conforms to Standards of Flammable Fabrics Act**
- **Sanitary—Each garment has never been worn before**

For Information: Call—Wire—Write to nearest distributor

Textile Products
181-189 Chestnut St.
Newark, N. J.

Robert A. Stough & Co.
608 S. Dearborn St.
Chicago, 5, Ill.

California Safety & Supply Co.
1309 A Bayshore Highway
San Jose, 12, Calif.

The Olympic Glove Co. Inc.
95 Madison Ave.
New York 16, N. Y.

abanda CLOTHING Manufactured by DISPOSABLES, Inc.

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GOLDEN SHOE CLUB

Dedicated to Foot Safety

To inquire about club membership, write:

Golden Shoe Club
1509 Washington Ave.,
St. Louis 66, Mo.

Otha Alford was chaining a lift of steel billets, each weighing 1,400 pounds, at the Laclede Steel Co., Madison, Wis. Several billets came to rest on his left foot. Because of his safety shoe, he received no injury.

Neal Bruun, Potlatch Forests, Inc., Lewiston, Ida., was lowering a feeder hoist when he moved too close and caught his foot under the edge of the hoist. Even though 2,000-pound pressure was exerted, the damage was confined to his safety shoe, not his foot.

B. E. Fitzgerald had another man help him remove a 150-pound cast iron guard from a pulley wheel on a turret lathe. It slipped from their hands, fell on Fitzgerald's foot. The cast iron cut through the leather to the metal cap, but no injury resulted. The location was ACF Industries, Inc., Houston.

Robert Hummel, Columbia-Southern Chemical Corp., Barberton, Ohio, tried to fasten a cable to a fork truck carrying a jack truck with a load of bricks. The jack truck toppled onto Hummel's foot, but his steel-toed safety shoe took most of the 600-pound impact. He received only a slight bruise.

Gene F. Barthels tried to move a high ladder by himself. It got out of control, struck his right shoe tip. The impact dented the safety shoe, but Barthels wasn't hurt. This occurred at the Union Electric Co., St. Louis.

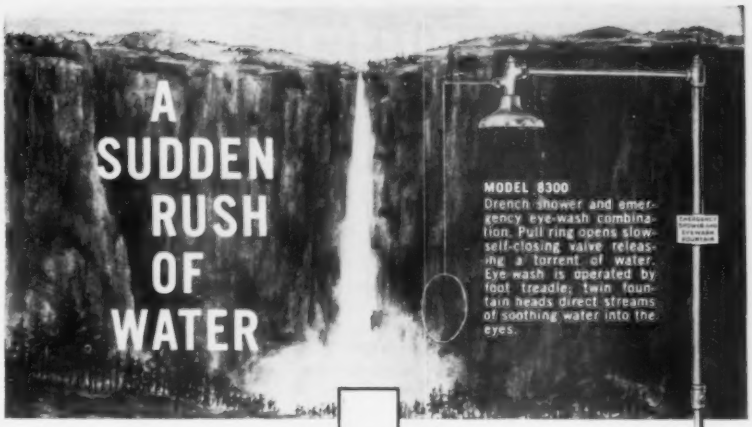
Anthony Bruno of Minnesota Mining & Manufacturing Co., St. Paul, was moving a pump when a steel plate became unbalanced and dropped on his left foot. The blow gashed the steel cap of his safety shoe. Bruno had only a minor bruise.

At Consumers Power Co. in Battle Creek, Mich., *Robert P. Whaley* was stripping an apple tree when a limb broke sooner than anticipated, causing a bind on the power saw. The saw jumped back, striking Whaley's safety shoe and cutting through to the steel cap. Whaley was not seriously injured.

A crane operator was moving a tray load of steel billets in position beside *Willie Jackson*, a heater in the forge shop department. The 3,000-pound load was accidentally dropped on Jackson's foot. Because he was wearing safety shoes, he suffered only a slight abrasion of his little toe. The accident happened at the Dana Corp., Toledo (Ohio) Division.

Walter Chesky was pushing several 150-pound brass rods out of his way. Suddenly the rear support on which the rods were stacked gave way. Chesky jumped back, but one of the rods struck his foot. The impact was enough to cut deeply into the safety shoes, leather, but Chesky was not injured. This close call happened at the Roessing Bronze Co., Pittsburgh.

Circle No. 108 on reader service card



for immediate FIRST AID

. . . in accidental body contamination

Injurious chemicals are instantly washed away by the cascading water from Haws Drench Showers. Simple pull-chain or foot treadle valves release a sudden rush of water – saving valuable seconds until medical help arrives. Chances of permanent injury are minimized, and insurance claims correspondingly lessened. HAWS Emergency Drench Showers are available in models to meet virtually any industrial need. WRITE TODAY – to find out the full story!

HAWS DRENCH SHOWERS

A product of
HAWS DRINKING FAUCET COMPANY
1443 Fourth Street • Berkeley 10, California
EXPORT DEPT.: 19 Columbus Ave., San Francisco 11, Calif., U.S.A.

On-The-Spot FIRST AID
. . . when it counts
PAC-KIT®

Instantly avails supplies and accessories for emergency care of burns, cuts, bruises, lacerations, superficial eye injuries, uncontrolled bleeding, fainting, fractures and allied injuries common to industry.

PAC-KITS are indispensable where shops lack medical facilities.

Average fellow worker can instantly apply any of the various replaceable items contained in the heavy-duty dustproof, moistureproof cabinet.

WRITE TODAY for description of 4 available sizes and prices.

Pac-Kit Safety Equipment Co.
P. O. Box 1306 Greenwich, Conn.

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HERE'S SAFETY plus ECONOMY
for cleaning parts that require individual handling

GRAYMILLS
CLEAN-O-MATIC
PARTS WASHERS

When faced with cleaning dies, gears, bearings, motor parts, machined parts, cavities, blind holes, assemblies and other parts that require individual handling, you can do it better and safer with CLEAN-O-MATIC. They have more features and are lower priced!

CLEAN-O-MATICS are built so rugged . . . and so dependable, the pump and tank carry a 5-year warranty.

SOLD BY LEADING INDUSTRIAL DISTRIBUTORS . . . FROM COAST TO COAST!

- **AUTOMATIC SAFETY COVER** with fusible link to reduce fire hazard. Self setting with thumb release. Can be operated with one hand from front of unit.
- **SANITARY—EASY TO CLEAN** . . . Solvent filter located above liquid level. Replaceable filter cartridge. Removable sludge trays. Tank drain
- **NO-FATIGUE WORKING HEIGHT.** Unit uses cold solvents. Eliminates toxic vapors. No heating or rusting.
- **3-WAY CLEANING ACTION** . . . jet-spray pistol-grip nozzle, steady flow metal flush hose and hydraulic or air agitated soak tanks.

. . . plus many more. Write for complete catalog on 4 low cost models. Also safety solvents and safety soak tanks.

GRAYMILLS CORPORATION / 3661 N. LINCOLN AVE. CHICAGO 13, ILLINOIS

Clean is easier, faster and better . . . with a CLEAN-O-MATIC

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Circle 111 on reader service card

HAND PROTECTION NEED NOT BE A WORRY..

PUT *National* ON THE JOB!

NAPA GOAT

Here is comfortable, easy to wear, complete hand protection that gives maximum flexibility and FIRM non-slip grip . . . and the natural lanolin in the Napa leather keeps hands in good condition. They're absolutely durable, water and oil repellent and ideally suited for all tough jobs! Comes in Band Top and Knit Wrist styles for both men (M-L) and women (S-M-L).

...and the *Buffer*

Pressure impregnated with tough vinyl plastic . . . gives you real economy — outwears regular canvas as much as 6 to 1 . . . Here is superior wearing quality — Available in both Slip-on (illustrated) and Knit Wrist styles.

Write for complete detailed information.

NATIONAL GLOVE, INC. COSHOCTON, OHIO

A Division of Pretty Products Inc. Coshocton, Ohio

Worried about the new
lower dosage standards of AEC?

Transistorized Minometer II, gives electronic readout of O-20 mr and O-200 mr full-scale with standard 200 mr pencil. Can also be used with more sensitive stray radiation chambers.

Victoreen MINOMETER II

Victoreen's Model 687 Minometer II is the ideal charger-reader for immediate determination of dosage under the new, lower AEC dosage regulations. No delay for processing . . . no processing charge . . . data can be used for legal records. Rugged, lightweight, portable. A-3614A

The Victoreen Instrument Company

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Export Department, 240 West 17th St., New York 17, N.Y.
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NEW PORTABLE PROPELLAIR®

TUBEAXIAL FANS with FLEXIBLE DUCT

WRITE: PROPELLAIR DIV.
ROBBINS & MYERS, INC.
SPRINGFIELD, OHIO

DIRTY HANDS MAY MEAN

DANGER!

Keep them safe with . . .

Phlo® Waterless Cleaner. Milky white and creamy smooth. Anti-dermatitis. Contains silicones and lanolin for double protection.

Phlo Neutral Protector. An effective, non-toxic soil and bacteria barrier. Contains lanolin and silicones. Available in water soluble and waterproof types.

Practi-Kreme Skin Protector and Cleaner. Applied before work to make skin impervious to paints, lacquers and other non-water based irritants. Moistened and rubbed to a lather after work, it leaves skin pore-deep clean.

Write for Free Test Samples

The Chemical Corporation

61 WALTHAM AVENUE, SPRINGFIELD 9, MASS.

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save life & property with New Model Falcon®

- Simple visual inspection with new sight glass—added neatness of design.

No one can place a price on the possible loss of lives due to fire. But Falcon Automatic Fire Alarms & Systems can give early warning of fire to protect lives and guard property.

Falcon Automatic Fire Alarms and Systems are:

- LISTED BY UL AND ULC for use with 600 ft. of ¼" aluminum tubing
- SELF-CONTAINED (No wires or batteries)
- FULLY GUARANTEED

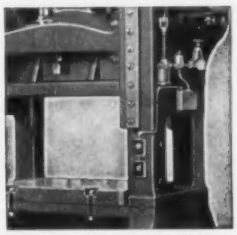
. . . and they are low in cost!

Dealers Wanted

WRITE for particulars — and free, informative "Sounds for Safety" folder! Dept. OH

Falcon® ALARM CO., INC.
SUMMIT, NEW JERSEY

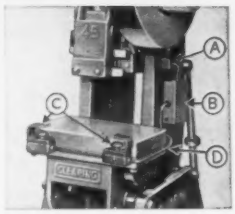
TWO HAND CONTROLS by SEARJEANT are Pre-wired TO FIT YOUR PUNCH PRESS



ELECTRO-PNEUMATIC UNIT

ELECTRO-SOLENOID CONTROL

Consists of:
(A) Solenoid
(B) Control Box
(C) Buttons
(D) All Wiring As Shown



ELECTRO-SOLENOID UNIT

Additional pairs of buttons may be added which must be pressed simultaneously where more than one operator is at the machine.

There are 12 other types of guards and controls made by Searjeant. Contact your local Safety or Machinery Supply Dealer, or send us his name and write us for complete catalogues.

SEARJEANT METAL PRODUCTS, INC.
No. 9 Pittsford Rd., Mendon, N. Y.
Circle No. 117 on reader service card

TURTLE CLUB

James E. Harvey, Consumers Power Co., Jackson, Mich., was picking up pieces of a shattered lightning arrester. One piece of porcelain still on the wire dropped 35 feet and struck him on the head. His safety hat completely protected his head.

Wilbert M. Becker was rigging pipe by means of a boom cat. The boom cable, not properly secured, pulled out of its clamps and fell, rapping the side of his head. The blow staggered him, but his safety hat cushioned his head from harm. This happened at the Great Northern Oil Co., St. Paul, Minn.

Joe H. Kline used a chain fall to lift and separate a section of transmission. When the carriage for the chain fall came off the track, it struck Kline on his head and shoulder. His safety hat absorbed the blow. The place was Permanente Cement Co., Lucerne Valley, Calif.

Jessie L. Courtney, Kaiser Aluminum & Chemical Corp., Baton Rouge, was filling an overhead bin with calcine alumina by means of a 5-gallon bucket, pulley, and rope. As he lowered an empty bucket, it caught on a beam and came loose. The bucket dropped 25 feet, crashed on Courtney's head. His safety hat prevented a serious head injury.

At the Kennecott Copper Corp., Magna, Utah, *C. LeRoy Albertson* was moving scrap when a piece fell from the rack onto his head. The 150-pound anode dented Albertson's safety hat, but caused no damage to his head.

Andrew L. Steward of Great Lakes Steel Corp., Detroit, was working 20 feet below an overhead crane when a bolt dropped from the crane onto his head. His safety cap shielded him from severe head injury.

As *Thomas C. Winters* was lowering a dome head on a high-pressure tank car, it caught on a safety ring. That made the ring fall. The 50-

continued on page 116

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continued from page 115

pound ring landed on Winter's head. His safety hat minimized the blow. No head injury resulted. The Nitrogen Division, Allied Chemical Corp., Ironton, Ohio, was the site of this incident.

Construction Superintendent *Oliver Severson* of Standard Construction Co. (Minneapolis) slipped while inspecting some form work and fell 12 feet to a concrete floor. His safety hat protected him from serious, perhaps fatal, head injury.

At Penn-Dixie Cement Corp., Clinchfield, Ga., an air lance separated from the air hose. The hose whipped up, striking *S. Loye Evans'* head. Because he was wearing a hard hat, he was not seriously injured.

At the Travis Ward Drilling Co., Athens, Tex., *Jess Williard Smith* was working near a mud pump. The pop-off valve popped when the motors were revved up. It struck Smith's head. Because of his safety hat, pop went the valve—not his head.

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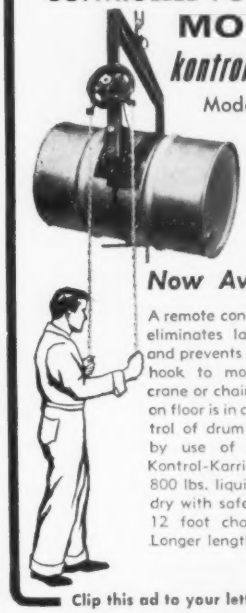

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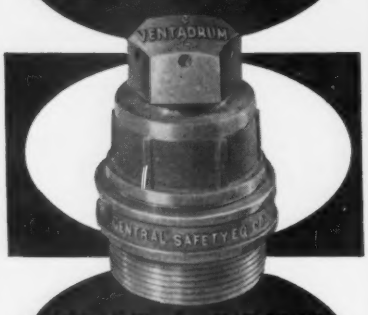

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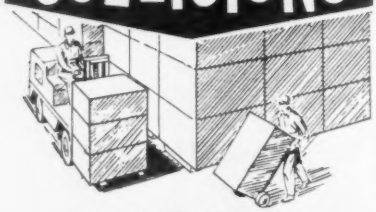

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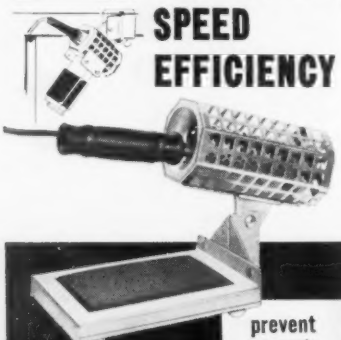

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